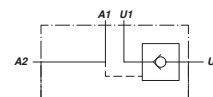
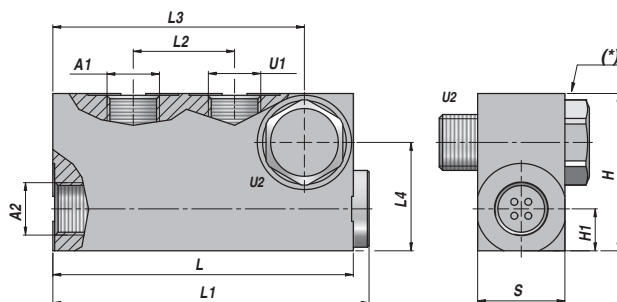
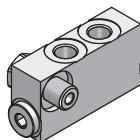


CLAPETS ANTI-RETOUR PILOTES - PILOT OPERATED CHECK VALVES

VRSE...CIL

SIMPLE EFFET SINGLE ACTING

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



Code Code	A1 - U1 BSP	A2 - U2 BSP	Q MAX l/min	P MAX bar	PILOT RATIO	Type Type	L	L1	L2	L3	L4	H1	H	S	kg
VSG325.B10450	1/4"	1/4"	20	300	1:4.9	VRSE 010 CIL	84	88.5	24	68.5	27	10	40	20	0,45
VSG325.B20490	3/8"	3/8"	20	300	1:4.9	VRSE 020 CIL	86	90.5	26	72.0	31	12	45	25	0,65

Pression d'ouverture - Opening pressure : 1 bar

(*) = Couple de serrage - Tightening torque

VRSE 010 CIL 1/4" = 40 Nm - VRSE 010 CIL 3/8" = 55 Nm

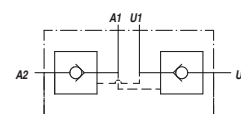
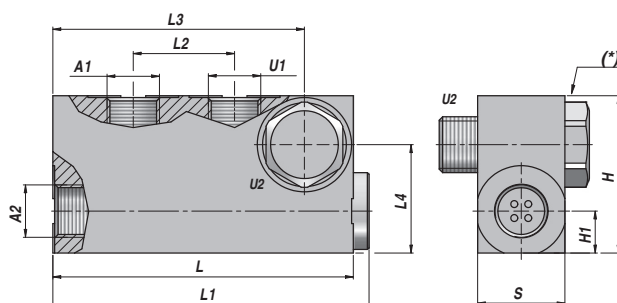
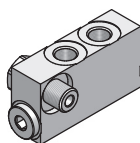
MATERIEL CORPS : ACIER
BODY MATERIAL : STEEL

MONTAGE SUR VERIN
CYLINDER MOUNTING

VRDE...CIL

DOUBLE EFFET DOUBLE ACTING

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



Code Code	A1 - U1 BSP	A2 - U2 BSP	Q MAX l/min	P MAX bar	PILOT RATIO	Type Type	L	L1	L2	L3	L4	H1	H	S	kg
VSG326.B10450	1/4"	1/4"	20	300	1:4.9	VRDE 010 CIL	84	88.5	24	68.5	27	10	40	20	0,45
VSG326.B20490	3/8"	3/8"	20	300	1:4.9	VRDE 020 CIL	86	90.5	26	72.0	31	12	45	25	0,65

Pression d'ouverture - Opening pressure : 1 bar

(*) = Couple de serrage - Tightening torque

VRDE 010 CIL 1/4" = 40 Nm - VRDE 010 CIL 3/8" = 55 Nm

MATERIEL CORPS : ACIER
BODY MATERIAL : STEEL

MONTAGE SUR VERIN
CYLINDER MOUNTING



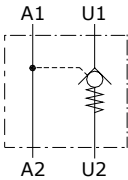
Type VRSE..CIL
pilot operated check valves

- Single acting
- Bolt connection

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

VRSE01CIL		VRSE02CIL
Nominal flow	20 l/min (5.3 US gpm)	
Max. pressure	300 bar (4350 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 temperature for working conditions	from -40°C (-40°F) to 100°C (212°F)	
Weight	steel 0.45 kg (0.99 lb)	0.65 kg (1.43 lb)

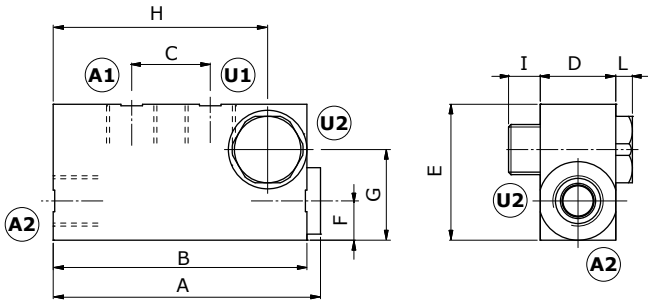
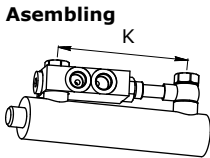
NOTE - For different conditions, please contact Sales Dpt.



Dimensions

VRSE CIL valve

Valve type	All ports
VRSE01CIL	G1/4
VRSE01CIL	G3/8



Dimensions are in mm-in

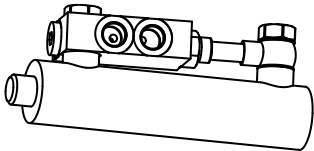
Valve type	A	B	C	D	E	F	G	H	I	L	K min
VRSE01CIL	88.5-3.48	84-3.31	24-0.94	20-0.79	40-1.57	10-0.39	27-1.06	68.5-2.7	10-0.39	6-0.23	123-4.84
VRSE01CIL	90.5-3.56	86-3.38	29-1.14	25-0.98	45-1.77	12-0.47	31-1.22	72-2.83	11-0.43	7-0.27	127-5

Ordering codes and description composition

VRSE 02 CIL

Port size

- without mounting hole
FF with mounting hole

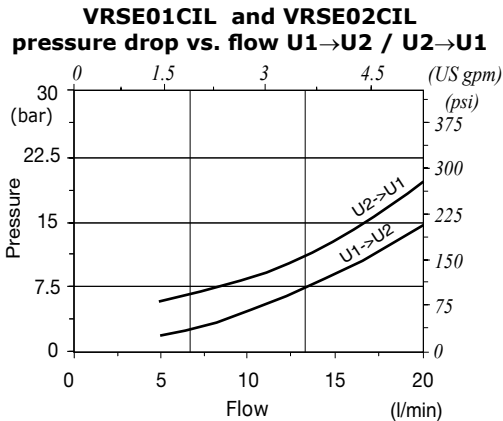
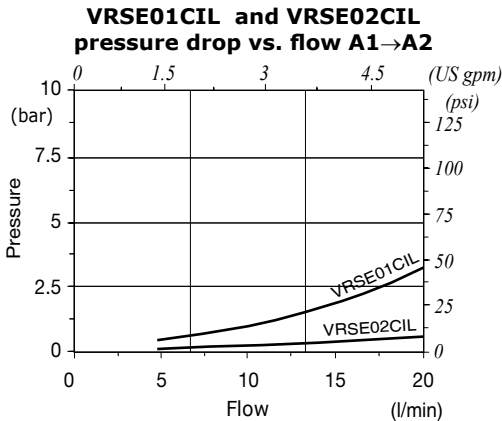


Complete valves

TYPE	CODE	DESCRIPTION
VRSE01CIL	1410312100	Steel body, G1/4 port configuration, opening pressure 1 bar (14,5 psi), pilot ratio 1:4.9
VRSE02CIL	1410322100	Steel body, G3/8 port configuration, opening pressure 1 bar (14,5 psi), pilot ratio 1:4.9

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

Rating diagram





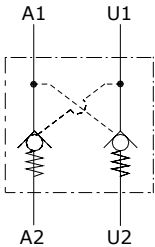
Type VRDE..CIL
pilot operated check valves

- Double acting
- With bolt connection

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

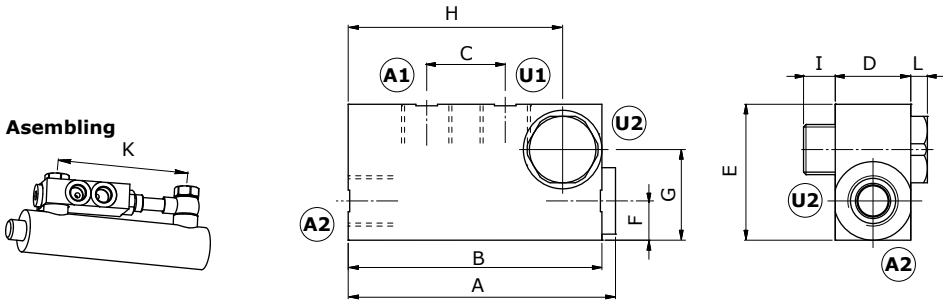
VRDE01CIL		VRDE02CIL
Nominal flow	20 l/min (5.3 US gpm)	
Max. pressure	300 bar (4350 psi)	
Oil leakage	0.25 cm³/min (0.015 in³/min) at 210 bar (3050 psi)	
Fluid	mineral based oil	
Viscosity	from 10 to 200 cSt	
Max. level of contamination	18/16/13 ISO4406	
Fluid temperature	with NBR seals from -20°C (-4°F) to 80°C (176°F)	
Environmental temp. for working conditions	from -40°C (-40°F) to 100°C (212°F)	
Weight	Steel 0.45 kg (0.99 lb)	0.65 kg (1.43 lb)

NOTE - For different conditions, please contact Sales Dpt.



Dimensions

Valve type	All ports
VRDE01CIL	G1/4
VRDE02CIL	G3/8

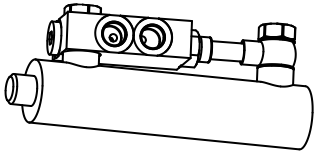


Dimensions are in mm-in

Valve type	A	B	C	D	E	F	G	H	I	L	K min
VRDE01CIL	88.5-3.48	84-3.31	24-0.94	20-0.79	40-1.57	10-0.39	27-1.06	68.5-2.7	10-0.39	6-0.23	123-4.84
VRDE02CIL	90.5-3.56	86-3.38	26-1.02	25-0.98	45-1.77	12-0.47	31-1.22	72-2.83	11-0.43	7-0.27	127-5

Ordering codes and description composition

Port size
VRDE 02 CIL

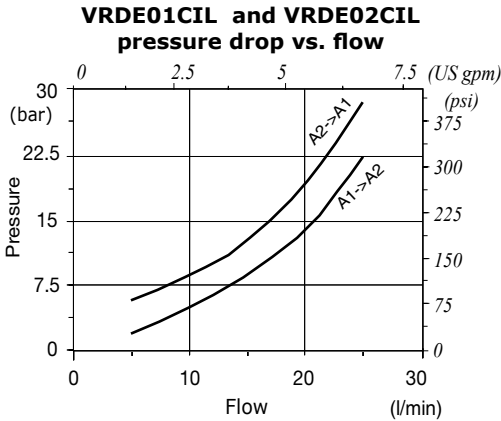


VRDECIL complete valves

TYPE	CODE	DESCRIPTION
VRDE01CIL	1420312100	Steel body, G1/4 port, opening pressure 1 bar (14,5 psi), pilot ratio 1:4.9
VRDE02CIL	1420322100	Steel body, G3/8 port, opening pressure 1 bar (14,5 psi), pilot ratio 1:4.9

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

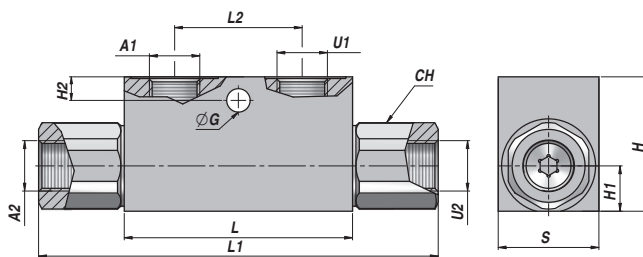
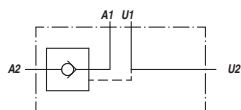
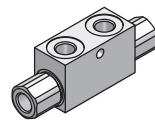
Rating diagram



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

SIMPLE EFFET
SINGLE ACTING

VRSE-F ...FF



Code Code	A1 - U1 BSP	A2 - U2 BSP	Q MAX l/min	P MAX bar	PILOT RATIO	Type Type	L	L1	L2	H1	H2	ØG	CH	H	S	kg
VSG311.F00404	1/8"	1/8"	20	350	1:4.5	VRSE-F 005 FF	53	86	20	11	-	-	17	30	20	0,40
VSG311.F10454	1/4"	1/4"	30	350	1:4.5	VRSE-F 010 FF	68	118	38	13	7	7.0	24	40	30	0,68
VSG311.F15454	3/8"	3/8"	30	350	1:4.5	VRSE-F 015 FF	68	118	38	13	7	7.0	24	40	30	0,63
VSG311.F20404	3/8"	3/8"	50	300	1:4	VRSE-F 020 FF	80	144	40	16	15	8.5	27	50	30	0,97
VSG311.F25404	1/2"	1/2"	50	300	1:4	VRSE-F 025 FF	80	144	40	16	15	8.5	27	50	30	0,90
VSG311.F30404	1/2"	1/2"	80	300	1:4	VRSE-F 030 FF	90	171	40	20	15	8.5	30	60	40	1,69
VSG311.F40404	3/4"	3/4"	120	300	1:4	VRSE-F 040 FF	107	196	60	23	16	8.5	41	70	50	3,06

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

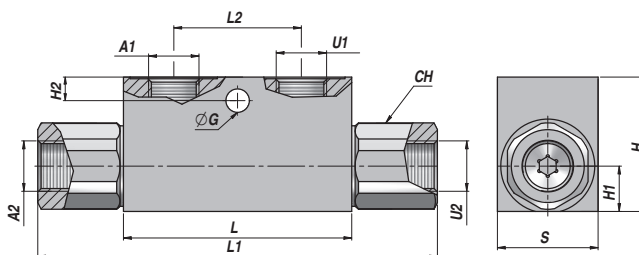
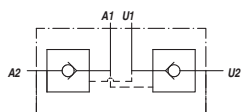
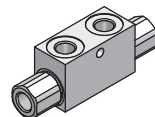
MATERIEL CORPS : ACIER
BODY MATERIAL : STEEL

MONTAGE SUR VERIN
CYLINDER MOUNTING

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

DOUBLE EFFET
DOUBLE ACTING

VRDE-F ...FF



Code Code	A1 - U1 BSP	A2 - U2 BSP	Q MAX l/min	P MAX bar	PILOT RATIO	Type Type	L	L1	L2	H1	H2	ØG	CH	H	S	kg
VSG312.F00404	1/8"	1/8"	20	350	1:4.5	VRDE-F 005 FF	53	86	20	11	-	-	17	30	20	0,40
VSG312.F10454	1/4"	1/4"	30	350	1:4.5	VRDE-F 010 FF	68	118	38	13	7	7.0	24	40	30	0,69
VSG312.F15454	3/8"	3/8"	30	350	1:4.5	VRDE-F 015 FF	68	118	38	13	7	7.0	24	40	30	0,64
VSG312.F20404	3/8"	3/8"	50	300	1:4	VRDE-F 020 FF	80	144	40	16	15	8.5	27	50	30	0,98
VSG312.F25404	1/2"	1/2"	50	300	1:4	VRDE-F 025 FF	80	144	40	16	15	8.5	27	50	30	0,91
VSG312.F30404	1/2"	1/2"	80	300	1:4	VRDE-F 030 FF	90	171	40	20	15	8.5	30	60	40	1,72
VSG312.F40404	3/4"	3/4"	120	300	1:4	VRDE-F 040 FF	107	196	60	23	16	8.5	41	70	50	3,11

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

MATERIEL CORPS : ACIER
BODY MATERIAL : STEEL

MONTAGE SUR VERIN
CYLINDER MOUNTING



Type VBPSL

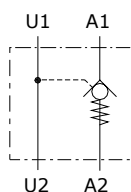
pilot operated check valves

- Single acting

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

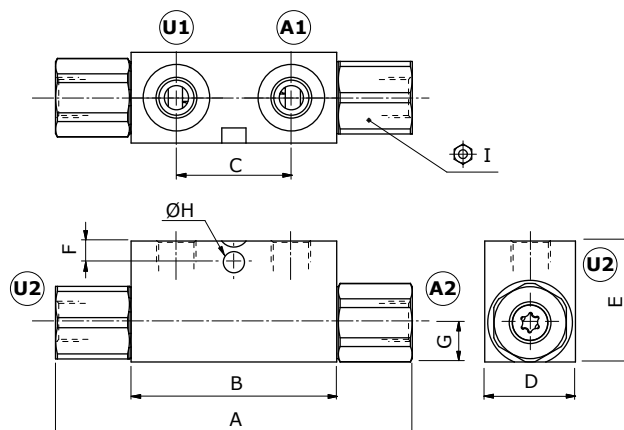
	VBPSL 14	VBPSL/VP 38	VBPSL 38	VBPSL/VP 12	VBPSL 12	VBPSL 34	
Nominal flow	30 l/min (7.9 US gpm)	30 l/min (7.9 US gpm)	50 l/min (13.2 US gpm)	50 l/min (13.2 US gpm)	80 l/min (21.1 US gpm)	120 l/min (31.7 US gpm)	
Max. pressure	350 bar (5100 psi)	350 bar (5100 psi)	300 bar (4350 psi)	300 bar (4350 psi)	300 bar (4350 psi)	300 bar (4350 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	0.68 kg (1.50 lb)	0.63 kg (1.39 lb)	0.97 kg (2.14 lb)	0.90 kg (1.98 lb)	1.69 kg (3.72 lb)	3.06 kg (6.75 lb)

NOTE - For different conditions, please contact Sales Dpt.



Dimensions

Valve type	All ports
VBPSL 14	G1/4
VBPSL/VP 38	G3/8
VBPSL 38	G3/8
VBPSL/VP 12	G1/2
VBPSL 12	G1/2
VBPSL 34	G3/4



Dimensions are in mm-in

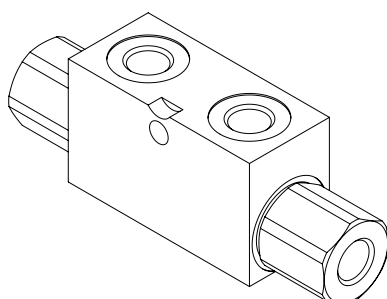
Valve type	A max.	B	C	D	E	F	G	ØH	⌀I
VBPSL 14	118-4.64	68-2.68	38-1.50	30-1.18	40-1.57	7-0.27	13-0.51	8-0.31	24
VBPSL/VP 38	118-4.64	68-2.68	38-1.50	30-1.18	40-1.57	7-0.27	13-0.51	8-0.31	24
VBPSL 38	144-5.67	80-3.15	40-1.57	30-1.18	50-1.97	15-0.59	16-0.63	8.5-0.33	27
VBPSL/VP 12	144-5.67	80-3.15	40-1.57	30-1.18	50-1.97	15-0.59	16-0.63	8.5-0.33	27
VBPSL 12	171-6.73	90-3.54	40-1.57	40-1.57	60-2.36	15-0.59	20-0.79	8.5-0.33	30
VBPSL 34	196 (¹)-7.72 (¹)	107-4.21	60-2.36	50-1.97	70-2.75	16-0.63	23-0.90	8.5-0.33	41

NOTE - (¹) only for 04 SAE 208

Ordering codes and description composition

Port size: 14
 Opening pressure: p4,5
 Pilot ratio: Pa4
 Valve type: ac

VBPSL 14 / p4,5 / Pa4 / ac



VBPSL complete valves

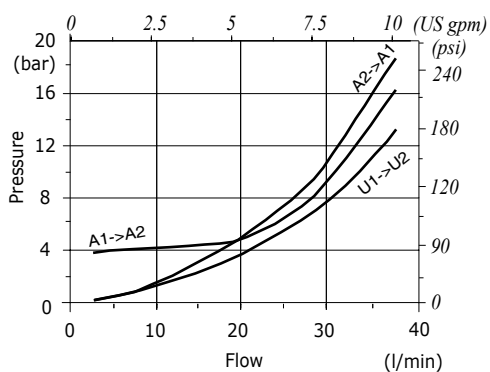
Steel body

TYPE	CODE	DESCRIPTION
VBPSL 14/p4,5/Pa4/ac	1410112100	G1/4 port, pilot ratio 1:4.5, opening press. 4 bar (58 psi)
VBPSL 38/p4/Pa4/ac	1410122100	G3/8 port, pilot ratio 1:4, opening press. 4 bar (58 psi)
VBPSL/VP 38/p4,5/Pa4/ac	1410122101	G3/8 port, pilot ratio 1:4.5, opening press. 4 bar (58 psi)
VBPSL 12/p4/Pa4/ac	1410132100	G1/2 port, pilot ratio 1:4, opening press. 4 bar (58 psi)
VBPSL/VP 12/p4/Pa4/ac	1410132101	G1/2 port, pilot ratio 1:4, opening press. 4 bar (58 psi)
VBPSL 34/p4/Pa4/ac	1410142100	G3/4 port, pilot ratio 1:4, opening press. 4 bar (58 psi)

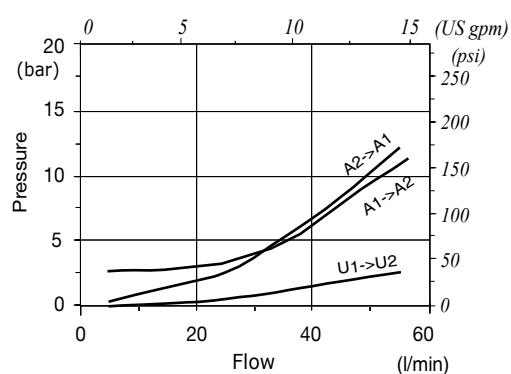
For different configurations or SAE thread please contact our Sales Dpt.

Rating diagrams

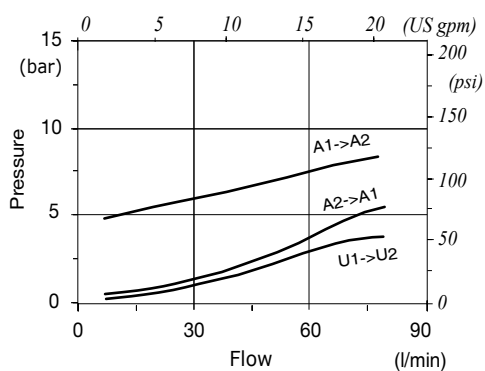
VBPSL 14 pressure drop vs. flow



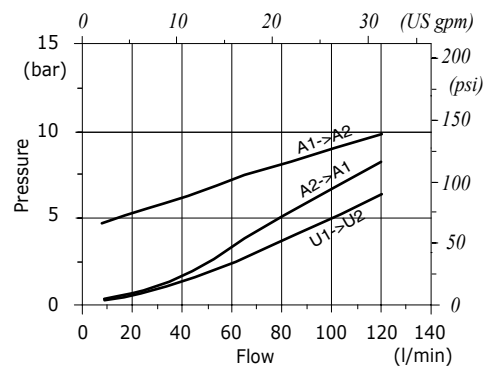
VBPSL 38 pressure drop vs. flow



VBPSL 12 pressure drop vs. flow



VBPSL 34 pressure drop vs. flow





Type VBPDL

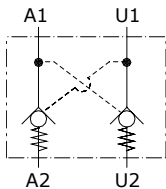
pilot operated check valves

- Double acting

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

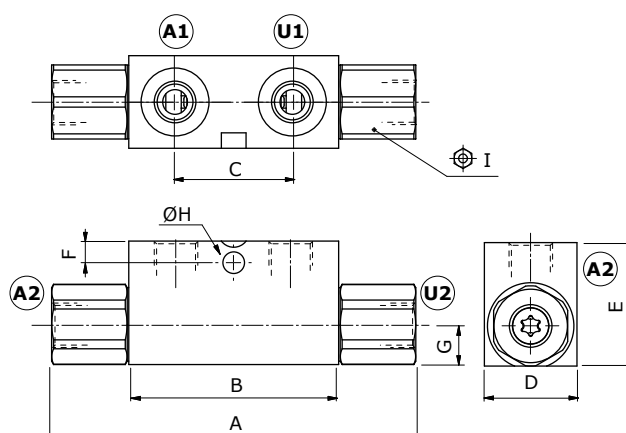
	VBPDL 14	VBPDL VP 38	VBPDL 38	VBPDL VP 12	VBPDL 12	VBPDL 34	
Nominal flow	30 l/min (7.9 US gpm)	30 l/min (7.9 US gpm)	50 l/min (13.2 US gpm)	50 l/min (13.2 US gpm)	80 l/min (21.1 US gpm)	120 l/min (31.7 US gpm)	
Max. pressure	350 bar (5100 psi)	350 bar (5100 psi)	300 bar (4350 psi)	300 bar (4350 psi)	300 bar (4350 psi)	300 bar (4350 psi)	
Oil leakage	0.25 cm³/min (0.015 in³/min) at 210 bar (3050 psi)						
Fluid	mineral based oil						
Viscosity	10-200 cSt						
Max. level of contamination	18/16/13 ISO4406						
Fluid temperature	with NBR seals from -20°C (-4°F) to 80°C (176°F)						
Environmental temp. for working conditions	from -40°C (-40°F) to 100°C (212°F)						
Weight	Steel	0.68 kg (1.5 lb)	0.63 kg (1.39 lb)	0.97 kg (2.14 lb)	0.9 kg (1.98 lb)	1.69 kg (3.72 lb)	3.06 kg (6.75 lb)

NOTE - For different conditions, please contact Sales Dpt.



Dimensions

Valve type	All ports
VBPDL 14	G1/4
VBPDL VP 38	G3/8
VBPDL 38	G3/8
VBPDL VP 12	G1/2
VBPDL 12	G1/2
VBPDL 34	G3/4



Dimensions are in mm-in

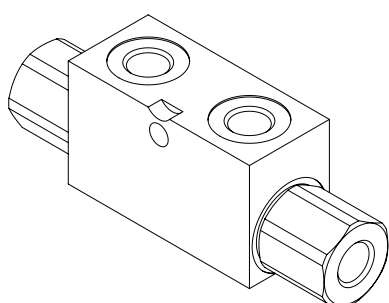
Valve type	A max.	B	C	D	E	F	G	ØH	⌀I
VBPDL 14	118-4.64	68-2.68	38-1.50	30-1.18	40-1.57	7-0.27	13-0.51	8-0.31	24
VBPDL VP 38	118-4.64	68-2.68	38-1.50	30-1.18	40-1.57	7-0.27	13-0.51	8-0.31	24
VBPDL 38	144-5.67	80-3.15	40-1.57	30-1.18	50-1.97	15-0.59	16-0.63	8.5-0.33	27
VBPDL VP 12	144-5.67	80-3.15	40-1.57	30-1.18	50-1.97	15-0.59	16-0.63	8.5-0.33	27
VBPDL 12	171-6.73	90-3.54	40-1.57	40-1.57	60-2.36	15-0.59	20-0.79	8.5-0.33	30
VBPDL 34	196 (¹)-7.72 (¹)	107-4.21	60-2.36	50-1.97	70-2.75	16-0.63	23-0.90	8.5-0.33	41

NOTE - (¹) Only for 04 SAE 208

Ordering codes and description composition

VBPDL 14 / p4,5 / Pa4 / ac

Port size: 14
Opening pressure: p4,5
Pilot ratio: Pa4
Ac: ac



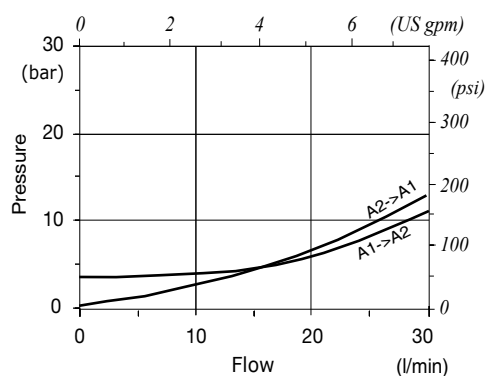
VBPDL Complete valves

TYPE	CODE	DESCRIPTION
VBPDL 14/p4,5/Pa4/ac	1420112100	Steel body, G1/4 port configuration, pilot ratio 1:4.5, opening pressure 4 bar (58 psi)
VBPDL 38/p4/Pa4/ac	1420122100	Steel body, G3/8 port configuration, pilot ratio 1:4, opening pressure 4 bar (58 psi)
VBPDL VP 38/p4/Pa4/ac	1420122101	Steel body, G3/8 port configuration, pilot ratio 1:4.5, opening pressure 4 bar (58 psi)
VBPDL 12/p4/Pa4/ac	1420132100	Steel body, G1/2 port configuration, pilot ratio 1:4, opening pressure 4 bar (58 psi)
VBPDL VP 12/p4/Pa4/ac	1420132101	Steel body, G1/2 port configuration, pilot ratio 1:4, opening pressure 4 bar (58 psi)
VBPDL 34/p4/Pa4/ac	1420142100	Steel body, G3/4 port configuration, pilot ratio 1:4, opening pressure 4 bar (58 psi)

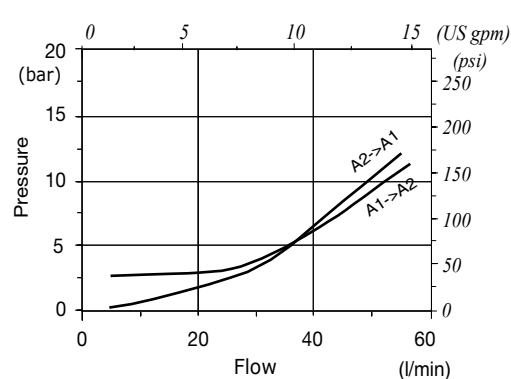
For different configurations or SAE thread please contact our Sales Dpt.

Rating diagrams

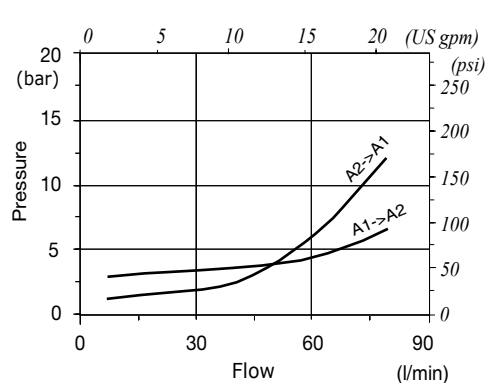
VBPDL 14 pressure drop vs. flow



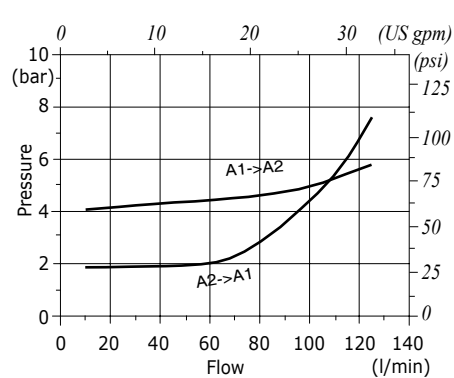
VBPDL 38 pressure drop vs. flow



VBPDL 12 pressure drop vs. flow



VBPDL 34 pressure drop vs. flow

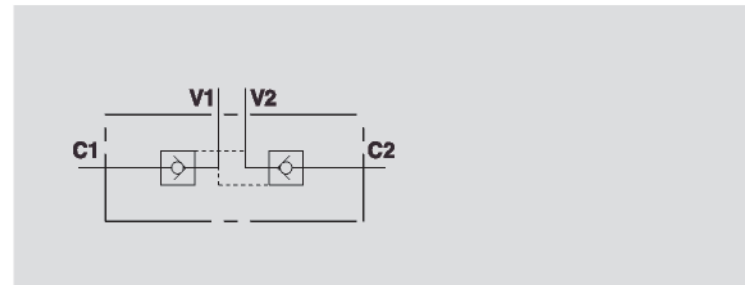
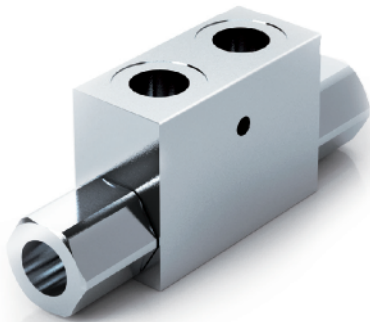


V1890.00xx

VALVOLE DI BLOCCO PILOTATE A DOPPIO EFFETTO DOUBLE PILOT OPERATED CHECK VALVES

TIPO / TYPE
VBPDE

SCHEMA IDRAULICO
HYDRAULIC DIAGRAM



IMPIEGO:

Valvola utilizzata per bloccare in posizione un cilindro in entrambi i sensi, consentendo il flusso in una direzione ed impedendolo in senso contrario fino a quando non viene applicata la pressione di pilotaggio.

MATERIALI E CARATTERISTICHE:

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

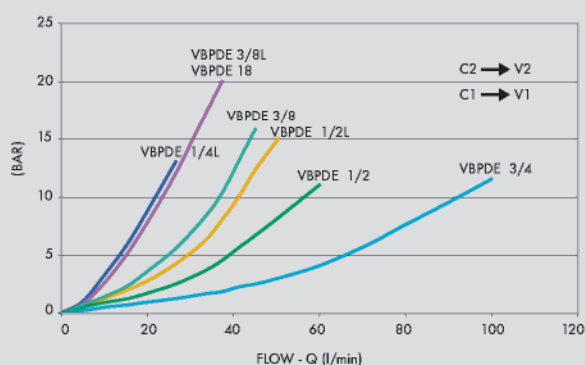
MONTAGGIO:

Collegare V1 e V2 all'alimentazione e C1 e C2 all'attuatore.

A RICHIESTA

- senza guarnizione OR sul pilota
- molla 1 Bar
- molla 8 Bar

PERDITE DI CARICO PRESSURE DROP CURVE



USE AND OPERATION:

Pilot check valves are used to block the cylinder in both directions. Flow is free in one direction and blocked in the reverse direction until pilot pressure is applied.

MATERIALS AND FEATURES:

Body: zinc-plated steel.
Internal parts: hardened and ground steel.
Seals: BUNA N standard.
Leakage: Guided poppet - negligible leakage.

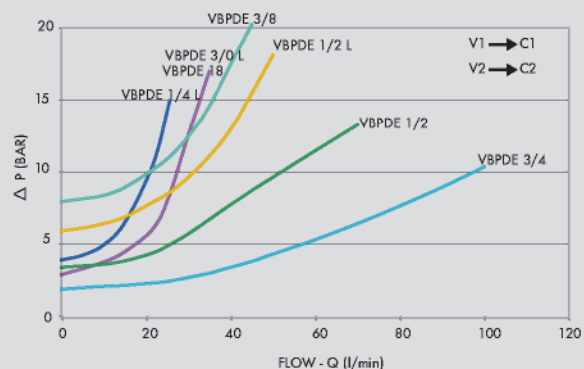
CONNECTIONS:

Connect V1 and V2 to the supply and C1 and C2 to the actuator.

ON REQUEST

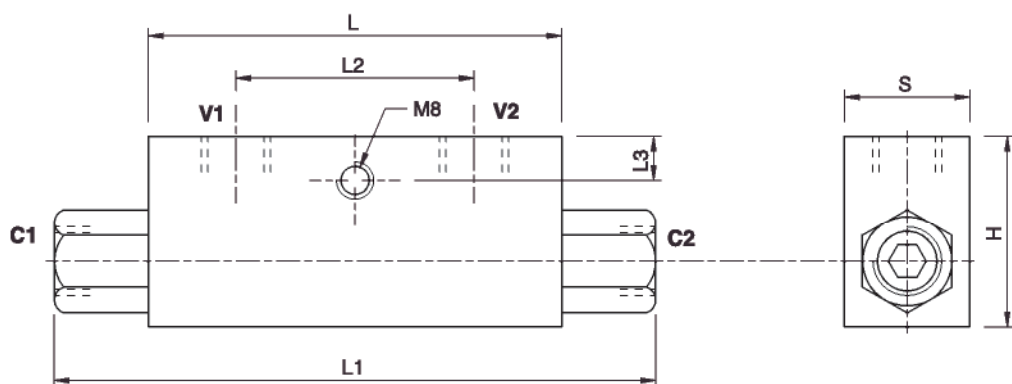
- without seal on pilot piston
- 1 Bar spring
- 8 Bar spring

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



V1890.00xx

CODICE CODE	SIGLA TYPE	RAPP. PILOT PILOT RATIO	PORTATA MAX MAX FLOW Lt. / min	PRESSIONE MAX MAX PRESSURE Bar	PRESSIONE APERTURA CRACKING PRESSURE Bar
V0010	VBPDE 1/4" L	1:5,5	20	350	4
V0020	VBPDE 3/8" L	1:5,5	35	350	3
V0030	VBPDE 1/2" L	1:5	50	350	6
V0050	VBPDE 3/8"	1:5	45	350	8
V0061	VBPDE 18 L	1:5,5	35	350	4
V0070	VBPDE 1/2"	1:4	70	350	3,5
V0040	VBPDE 3/4"	1:4	100	300	2



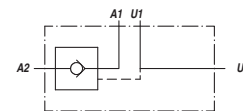
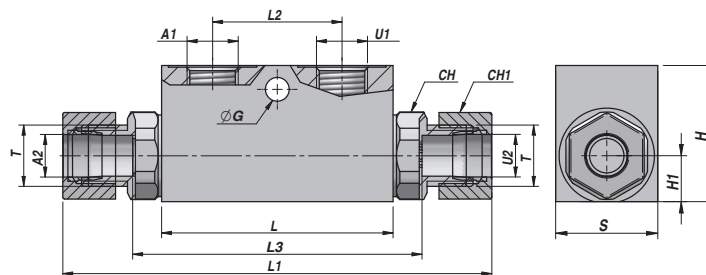
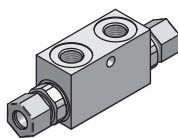
CODICE CODE	SIGLA TYPE	V1 - V2 C1 - C2 GAS - MET	L mm	L1 mm	L2 mm	L3 mm	H mm	S mm	PESO WEIGHT kg
V0010	VBPDE 1/4"L	G 1/4"	64	113	36	8	40	30	0,636
V0020	VBPDE 3/8"L	G 3/8"	80	128	38	8	40	30	0,736
V0030	VBPDE 1/2" L	G 1/2"	90	142	45	12,5	45	35	1,042
V0050	VBPDE 3/8"	G 3/8"	90	156	45	12,5	45	35	1,174
V0061	VBPDE 18 L	M18X1,5	68	118	38	8	40	30	0,630
V0070	VBPDE 1/2"	G 1/2"	80	144	40	18	60	35	1,284
V0040	VBPDE 3/4"	G 3/4"	100	192	46	12	60	40	1,916

CLAPETS ANTI-RETOUR PILOTES - PILOT OPERATED CHECK VALVES

VRSE-A...FF

SIMPLE EFFET
SINGLE ACTING

CLAPET ANTI-RETOUR PILOTE DIN 2353 (ETANCHEITE PAR CONE)
PILOT OPERATED CHECK VALVE DIN 2353 (POPPET TYPE)



AVEC ECROU ET BAGUE DE SERRAGE
WITH NUT AND CUTTING RING

Code Code	A1 - U1 BSP	A2 - U2	T	Q MAX l/min	P MAX bar	PILOT RATIO	Type Type	L	L1	L2	L3	H1	H2	ØG	CH	CH1	H	S	kg
VSG323.F05454	1/4"	Ø10	M16x1.5	20	350	1:4.5	VRSE-A 005 FF	68	138	38	86	13	7	7.0	24	20	40	30	0,64
VSG323.F10454	1/4"	Ø12	M18x1.5	30	350	1:4.5	VRSE-A 010 FF	68	138	38	86	13	7	7.0	24	22	40	30	0,67
VSG323.F14454	3/8"	Ø10	M16x1.5	20	350	1:4.5	VRSE-A 014 FF	68	138	38	86	13	7	7.0	24	20	40	30	0,63
VSG323.F15454	3/8"	Ø12	M18x1.5	30	350	1:4.5	VRSE-A 015 FF	68	138	38	86	13	7	7.0	24	22	40	30	0,66
VSG323.F20404	3/8"	Ø15	M22x1.5	50	300	1:4	VRSE-A 020 FF	80	166	40	108	16	15	8.5	27	27	50	30	0,97
VSG323.F25404	1/2"	Ø15	M22x1.5	50	300	1:4	VRSE-A 025 FF	80	166	40	108	16	15	8.5	27	27	50	30	0,91
VSG323.F30404	1/2"	Ø18	M26x1.5	80	300	1:4	VRSE-A 030 FF	90	180	40	133	20	15	8.5	30	32	60	40	1,67

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

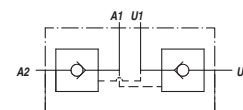
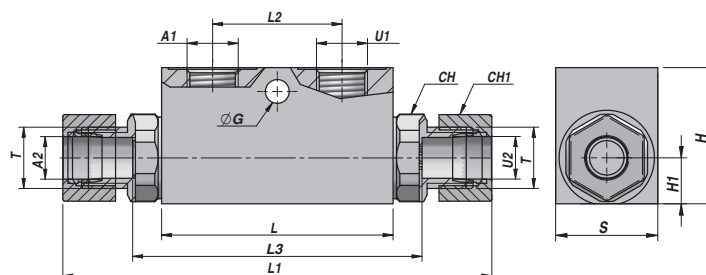
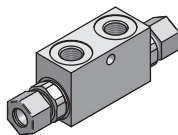
MATERIEL CORPS : ACIER
BODY MATERIAL : STEEL

MONTAGE SUR VERIN
CYLINDER MOUNTING

VRDE-A...FF

DOUBLE EFFET
DOUBLE ACTING

CLAPET ANTI-RETOUR PILOTE DIN 2353 (ETANCHEITE PAR CONE)
PILOT OPERATED CHECK VALVE DIN 2353 (POPPET TYPE)



AVEC ECROU ET BAGUE DE SERRAGE
WITH NUT AND CUTTING RING

Code Code	A1 - U1 BSP	A2 - U2	T	Q MAX l/min	P MAX bar	PILOT RATIO	Type Type	L	L1	L2	L3	H1	H2	ØG	CH	CH1	H	S	kg
VSG324.F05454	1/4"	Ø10	M16x1.5	20	350	1:4.5	VRDE-A 005 FF	68	138	38	86	13	7	7.0	24	20	40	30	0,64
VSG324.F10454	1/4"	Ø12	M18x1.5	30	350	1:4.5	VRDE-A 010 FF	68	138	38	86	13	7	7.0	24	22	40	30	0,67
VSG324.F14454	3/8"	Ø10	M16x1.5	20	350	1:4.5	VRDE-A 014 FF	68	138	38	86	13	7	7.0	24	20	40	30	0,63
VSG324.F15454	3/8"	Ø12	M18x1.5	30	350	1:4.5	VRDE-A 015 FF	68	138	38	86	13	7	7.0	24	22	40	30	0,66
VSG324.F20404	3/8"	Ø15	M22x1.5	50	300	1:4	VRDE-A 020 FF	80	166	40	108	16	15	8.5	27	27	50	30	0,97
VSG324.F25404	1/2"	Ø15	M22x1.5	50	300	1:4	VRDE-A 025 FF	80	166	40	108	16	15	8.5	27	27	50	30	0,91
VSG324.F30404	1/2"	Ø18	M26x1.5	80	300	1:4	VRDE-A 030 FF	90	180	40	133	20	15	8.5	30	32	60	40	1,67

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

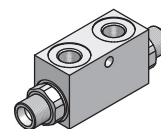
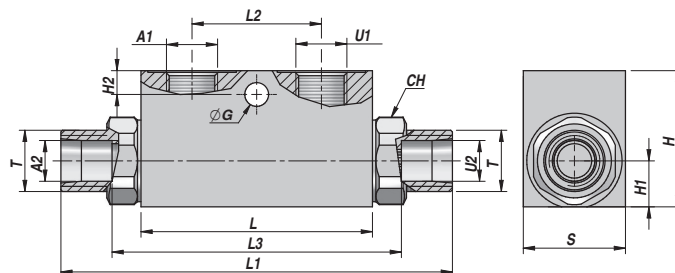
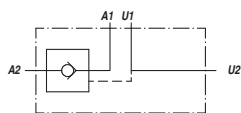
MATERIEL CORPS : ACIER
BODY MATERIAL : STEEL

MONTAGE SUR VERIN
CYLINDER MOUNTING

CLAPET ANTI-RETOUR PILOTE DIN 2353 (ETANCHEITE PAR CONE)
PILOT OPERATED CHECK VALVE DIN 2353 (POPPET TYPE)

SIMPLE EFFET
SINGLE ACTING

VRSE-AZ...FF



SANS ECROU ET BAGUE DE SERRAGE
WITHOUT NUT AND CUTTING RING

Code Code	A1 - U1 BSP	A2 - U2	T	Q MAX l/min	P MAX bar	PILOT RATIO	Type Type	L	L1	L2	L3	H1	H2	ØG	CH	H	S	kg
VSG321.F05454	1/4"	Ø10	M16x1.5	20	350	1:4.5	VRSE-AZ 005 FF	68	115	38	86	13	7	7.0	24	40	30	0,59
VSG321.F10454	1/4"	Ø12	M18x1.5	30	350	1:4.5	VRSE-AZ 010 FF	68	115	38	86	13	7	7.0	24	40	30	0,62
VSG321.F14454	3/8"	Ø10	M16x1.5	20	350	1:4.5	VRSE-AZ 014 FF	68	115	38	86	13	7	7.0	24	40	30	0,58
VSG321.F15454	3/8"	Ø12	M18x1.5	30	350	1:4.5	VRSE-AZ 015 FF	68	115	38	86	13	7	7.0	24	40	30	0,61
VSG321.F20404	3/8"	Ø15	M22x1.5	50	300	1:4	VRSE-AZ 020 FF	80	140	40	108	16	15	8.5	27	50	30	0,88
VSG321.F25404	1/2"	Ø15	M22x1.5	50	300	1:4	VRSE-AZ 025 FF	80	140	40	108	16	15	8.5	27	50	30	0,82
VSG321.F30404	1/2"	Ø18	M26x1.5	80	300	1:4	VRSE-AZ 030 FF	90	152	40	133	20	15	8.5	30	60	40	1,54

Pression d'ouverture - Opening pressure : bar 0,5 - 4 (standard) - 8

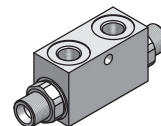
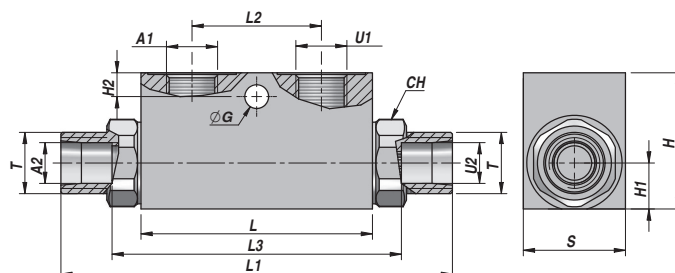
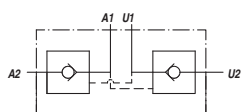
MATERIEL CORPS : ACIER
BODY MATERIAL : STEEL

MONTAGE SUR VERIN
CYLINDER MOUNTING

CLAPET ANTI-RETOUR PILOTE DIN 2353 (ETANCHEITE PAR CONE)
PILOT OPERATED CHECK VALVE DIN 2353 (POPPET TYPE)

DOUBLE EFFET
DOUBLE ACTING

VRDE-AZ...FF



SANS ECROU ET BAGUE DE SERRAGE
WITHOUT NUT AND CUTTING RING

Code Code	A1 - U1 BSP	A2 - U2	T	Q MAX l/min	P MAX bar	PILOT RATIO	Type Type	L	L1	L2	L3	H1	H2	ØG	CH	H	S	kg
VSG322.F05454	1/4"	Ø10	M16x1.5	20	350	1:4.5	VRDE-AZ 005 FF	68	115	38	86	13	7	7.0	24	40	30	0,59
VSG322.F10454	1/4"	Ø12	M18x1.5	30	350	1:4.5	VRDE-AZ 010 FF	68	115	38	86	13	7	7.0	24	40	30	0,62
VSG322.F14454	3/8"	Ø10	M16x1.5	20	350	1:4.5	VRDE-AZ 014 FF	68	115	38	86	13	7	7.0	24	40	30	0,58
VSG322.F15454	3/8"	Ø12	M18x1.5	30	350	1:4.5	VRDE-AZ 015 FF	68	115	38	86	13	7	7.0	24	40	30	0,61
VSG322.F20404	3/8"	Ø15	M22x1.5	50	300	1:4	VRDE-AZ 020 FF	80	140	40	108	16	15	8.5	27	50	30	0,88
VSG322.F25404	1/2"	Ø15	M22x1.5	50	300	1:4	VRDE-AZ 025 FF	80	140	40	108	16	15	8.5	27	50	30	0,82
VSG322.F30404	1/2"	Ø18	M26x1.5	80	300	1:4	VRDE-AZ 030 FF	90	152	40	133	20	15	8.5	30	60	40	1,54

Pression d'ouverture - Opening pressure : bar 0,5 - 4 (standard) - 8

MATERIEL CORPS : ACIER
BODY MATERIAL : STEEL

MONTAGE SUR VERIN
CYLINDER MOUNTING



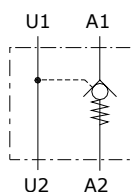
Type VRSE..A pilot operated check valves

- Single acting
- DIN 2353

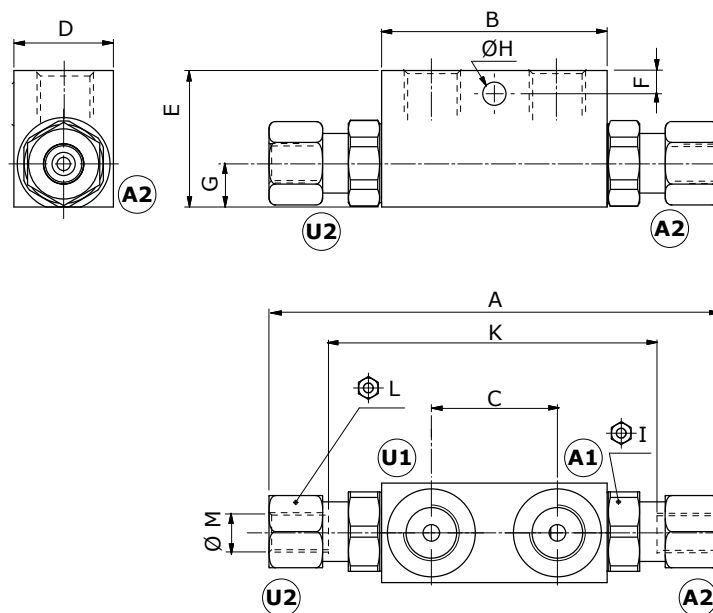
Technical specifications and diagrams are measured with mineral oil of 46 cSt viscosity at 40°C (104°F) temperature.

	VRSE01A	VRSE015A	VRSE02A	VRSE025A	VRSE03A	
Nominal flow	30 l/min (7.9 US gpm)	30 l/min (7.9 US gpm)	50 l/min (13.2 US gpm)	50 l/min (13.2 US gpm)	80 l/min (21.1 US gpm)	
Max. pressure	350 bar (5100 psi)	350 bar (5100 psi)	300 bar (4350 psi)	300 bar (4350 psi)	300 bar (4350 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	from -40°C (-40°F) to 100°C (212°F)					
Weight	steel	0.67 kg (1.48 lb)	0.66 kg (1.45 lb)	0.97 kg (2.14 lb)	0.91 kg (2.01 lb)	1.67 kg (3.68 lb)

NOTE - For different conditions, please contact Sales Dpt.



Dimensions



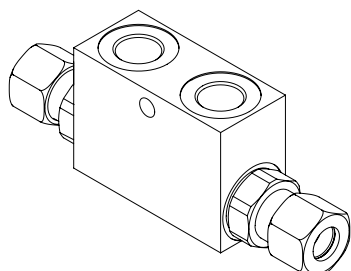
Valve type	A1-U1	A2-U2 (Ø M)
VRSE01A	G1/4	12-0.47
VRSE015A	G3/8	12-0.47
VRSE02A	G3/8	15-0.59
VRSE025A	G1/2	15-0.59
VRSE03A	G1/2	18-0.71

Dimensions are in mm-in

Valve type	A	B max.	C	D	E	F	G	ØH	ØI	ØL	K
VRSE01A	138-5.43	68-2.68	38-1.50	30-1.18	40-1.57	7-0.27	13-0.51	8-0.31	24	22	86-3.38
VRSE015A	138-5.43	68-2.68	38-1.50	30-1.18	40-1.57	7-0.27	13-0.51	8-0.31	24	22	86-3.38
VRSE02A	166-6.53	80-3.15	40-1.57	30-1.18	50-1.97	15-0.59	16-0.63	8.5-0.33	27	27	108-4.25
VRSE025A	166-6.53	80-3.15	40-1.57	30-1.18	50-1.97	15-0.59	16-0.63	8.5-0.33	27	27	108-4.25
VRSE03A	180-7.09	90-3.54	40-1.57	40-1.57	60-2.36	15-0.59	20-0.79	8.5-0.33	30	32	133-5.24

Ordering codes and description composition

Port size
VRSE 02 A



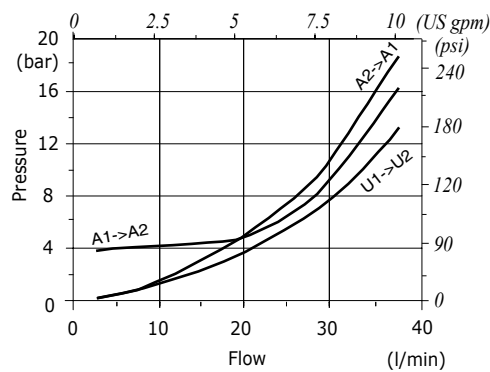
VRSE complete valves

TYPE	CODE	DESCRIPTION
VRSE01A	1410212100	Steel body, G1/4 port, pilot ratio 1:4.5, opening pressure 4 bar (58 psi)
VRSE015A	1410222100	Steel body, G3/8 port, pilot ratio 1:4.5, opening pressure 4 bar (58 psi)
VRSE02A	1410222101	Steel body, G3/8 port, pilot ratio 1:4, opening pressure 4 bar (58 psi)
VRSE025A	1410232100	Steel body, G1/2 port, pilot ratio 1:4, opening pressure 4 bar (58 psi)
VRSE03A	1410232101	Steel body, G1/2 port, pilot ratio 1:4, opening pressure 4 bar (58 psi)

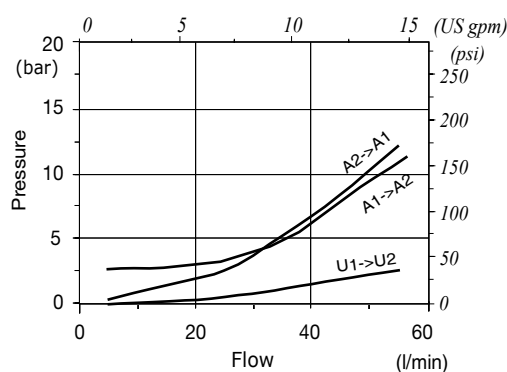
For different configurations or SAE thread please contact our Sales Dpt.

Rating diagrams

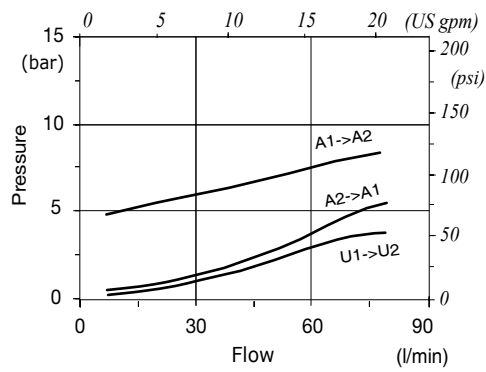
VRSE01A pressure drop vs. flow



VRSE02A pressure drop vs. flow



VRSE03A pressure drop vs. flow





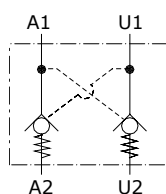
Type VRDE..A pilot operated check valves

- Double acting
- DIN 2353

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

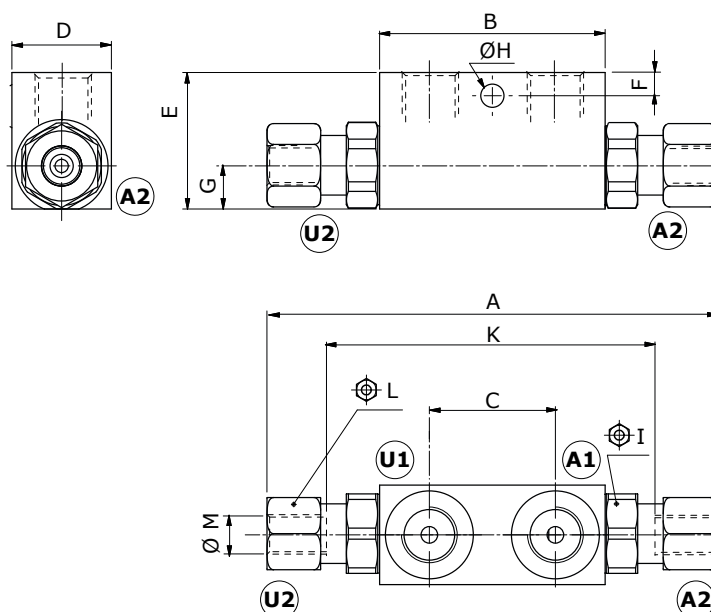
	VRDE01A	VRDE015A	VRDE02A	VRDE025A	VRDE03A	
Nominal flow	30 l/min (7.92 US gpm)	30 l/min (7.92 US gpm)	50 l/min (13.2 US gpm)	50 l/min (13.2 US gpm)	80 l/min (21.1 US gpm)	
Max. pressure	350 bar (5100 psi)	350 bar (5100 psi)	300 bar (4350 psi)	300 bar (4350 psi)	300 bar (4350 psi)	
Oil leakage	0.25 cm³/min (0.015 in³/min) at 210 bar (3050 psi)					
Fluid	mineral based oil					
Viscosity	10-200 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	0.67 kg (1.48 lb)	0.66 kg (1.45 lb)	0.97 kg (2.14 lb)	0.91 kg (2.01 lb)	1.67 kg (3.68 lb)

NOTE - For different conditions, please contact Sales Dpt.



Dimension

Valve type	A1-U1	A2-U2 (Ø M)
VRDE01A	G1/4	12-0.47
VRDE015A	G3/8	12-0.47
VRDE02A	G3/8	15-0.59
VRDE025A	G1/2	15-0.59
VRDE03A	G1/2	18-0.71

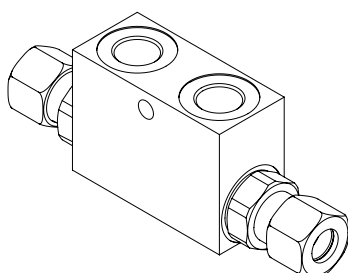


Dimensions are in mm-in

Valve type	A	B max.	C	D	E	F	G	ØH	ØI	ØL	K
VRDE01A	138-5.43	68-2.68	38-1.50	30-1.18	40-1.57	7-0.27	13-0.51	8-0.31	24	22	86-3.38
VRDE 015A	138-5.43	68-2.68	38-1.50	30-1.18	40-1.57	7-0.27	13-0.51	8-0.31	24	22	86-3.38
VRDE02A	166-6.53	80-3.15	40-1.57	30-1.18	50-1.97	15-0.59	16-0.63	8.5-0.33	27	27	108-4.25
VRDE025A	166-6.53	80-3.15	40-1.57	30-1.18	50-1.97	15-0.59	16-0.63	8.5-0.33	27	27	108-4.25
VRDE03A	180-7.09	90-3.54	40-1.57	40-1.57	60-2.36	15-0.59	20-0.79	8.5-0.33	30	32	133-5.24

Ordering codes and description composition

Port size
VRDE 02 A

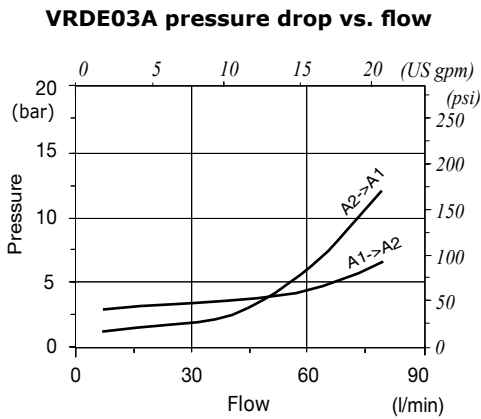
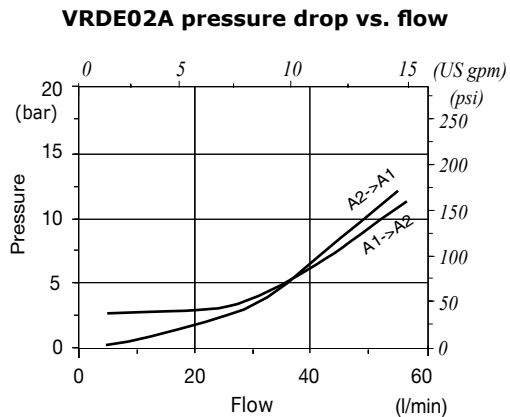
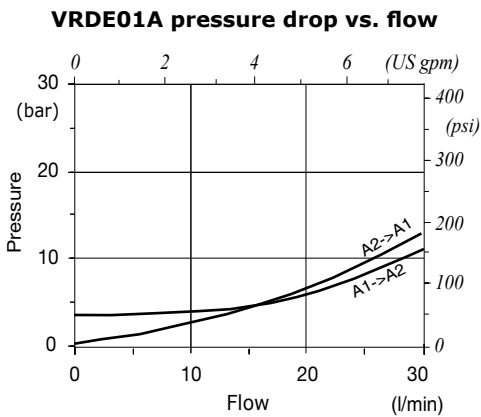


VRDE A complete valves

TYPE	CODE	DESCRIPTION
VRDE01A	1420212100	Steel body, G1/4 port, pilot ratio 1:4.5, opening pressure 4 bar (58 psi)
VRDE015A	1420222100	Steel body, G3/8 port, pilot ratio 1:4.5, opening pressure 4 bar (58 psi)
VRDE02A	1420222101	Steel body, G3/8 port, pilot ratio 1:4, opening pressure 4 bar (58 psi)
VRDE025A	1420232100	Steel body, G1/2 port, pilot ratio 1:4, opening pressure 4 bar (58 psi)
VRDE03A	1420232101	Steel body, G1/2 port, pilot ratio 1:4, opening pressure 4 bar (58 psi)

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

Rating diagrams

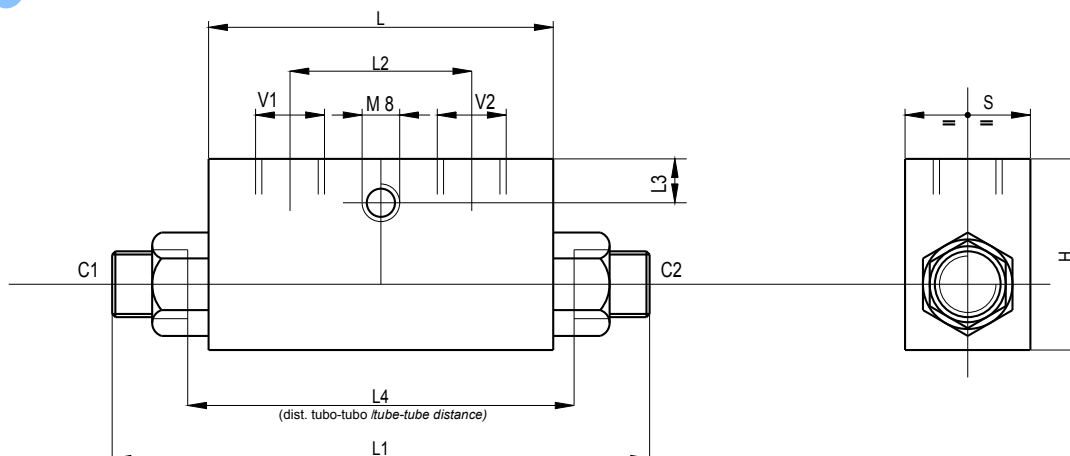


VALVOLA DI BLOCCO A DOPPIO EFFETTO CART.EXC DOUBLE PILOT OPERATED CHECK VALVE

TIPO VBPDE L 2CEX VBPDE L 2CEXC TYPE

CARATTERISTICHE/RATINGS

CODICE CODE	SIGLA TYPE	RAPP. PILOT. PILOT RATIO	PORTATA MAX MAX. FLOW	PRESS. MAX MAX PRESS.	PRESS. APERTURA CRACKING PRESS.
			Lt./min	Bar	Bar
V0065	VBPDE 3/8" L 2CEXC - L=115	1 : 5,5	30	350	4



DIMENSIONI/DIMENSIONS

CODICE CODE	SIGLA TYPE	V1-V2 GAS	C1-C2 GAS	L mm	L1 mm	L2 mm	L3 mm	L4 mm	H mm	S mm	PESO WEIGHT kg
V0065	VBPDE 3/8" L 2CEXC SDO - L=115	G 3/8"	12L	68	115	38	8	85	40	30	0,662

IMPIEGO:

Valvola utilizzata per bloccare in posizione un cilindro in entrambi i sensi, consentendo il flusso in una direzione ed impedendolo in senso contrario fino a quando non viene applicata la pressione di pilotaggio.

MATERIALI E CARATTERISTICHE:

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

MONTAGGIO:

Collegare V1 e V2 all'alimentazione e C1 e C2 all'attuatore.

A RICHIESTA:

- senza guarnizione OR sul pilota
- molla 1 Bar
- molla 8 Bar

USE AND OPERATION:

Pilot check valves are used to block the cylinder in both directions. Flow is free in one direction and blocked in the reverse direction until pilot pressure is applied.

MATERIALS AND FEATURES:

Body: zinc-plated steel
Internal parts: hardened and ground steel
Seals: BUNA N standard
Poppet type: any leakage

APPLICATIONS:

Connect V1 e V2 to the pressure flow and C1 e C2 to the actuator.

ON REQUEST:

- without seal on pilot piston
- 1 Bar spring
- 8 Bar spring

SCHEMA IDRAULICO/HYDRAULIC DIAGRAM

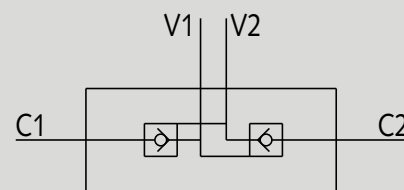
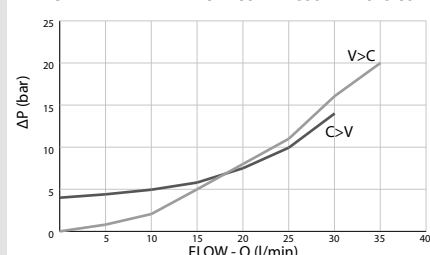


DIAGRAMMA PERDITE DI CARICO - PRESSURE DROPS CURVE



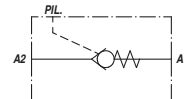
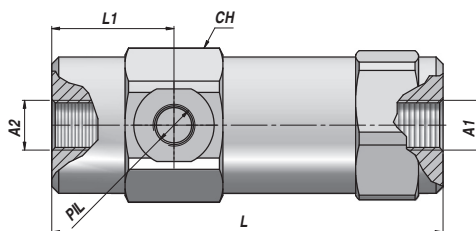
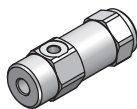
Temperatura olio: 50° - Viscosità olio: 30cSt
Oil temperature: 50° - Oil viscosity: 30cSt

CLAPETS ANTI-RETOUR PILOTES - PILOT OPERATED CHECK VALVES

VBPS

SIMPLE EFFET
SINGLE ACTING

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



Code Code	A1 - A2 BSP	PIL BSP	Q MAX l/min	P MAX bar	PILOT RATIO	Type Type	L	L1	CH	kg
VSG341.109500	1/4"	1/4"	25	350	1:9.5	VBPS 010	103.0	32.5	36	0,69
VSG341.206000	3/8"	1/4"	40	350	1:6	VBPS 020	111.0	35.0	40	0,93
VSG341.304300	1/2"	1/4"	60	350	1:4.3	VBPS 030	122.0	38.0	42	1,08
VSG341.404000	3/4"	1/4"	90	300	1:4.4	VBPS 040	145.5	44.5	55	2,32
VSG341.503500	1"	1/4"	130	260	1:3.5	VBPS 050	164.0	44.5	55	2,36

Pression d'ouverture - Opening pressure : bar 1 (standard) - 4 - 8

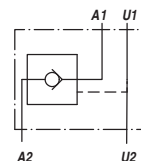
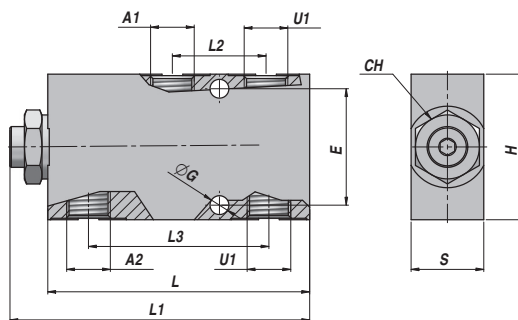
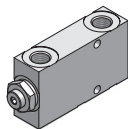
MATERIEL CORPS : ACIER
BODY MATERIAL : STEEL

MONTAGE EN LIGNE
LINE MOUNTING

VBPSE A

SIMPLE EFFET
SINGLE ACTING

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



Code Code	A1 - U1 BSP	A2 - U2 BSP	Q MAX l/min	P MAX bar	PILOT RATIO	Type Type	L	L1	L2	L3	ØG	E	H	S	kg
V1790.0274	3/8"	3/8"	30	350	01:08	VBPSE 3/8" A	80	96	33.5	50	8.5	40	60	30	1
V1790.0276	1/2"	1/2"	55	350	01:4.5	VBPSE 1/2" A	105	121	42	70	8.5	40	80	35	2

Pression d'ouverture - Opening pressure : bar 4,5 (VBPSE 3/8" A) - 5,5 (VBPSE 1/2" A)

MATERIEL CORPS : ACIER ZINGUÉ
BODY MATERIAL : ZINC-PLATED STEEL

MONTAGE EN LIGNE
LINE MOUNTING



Type VUPSL
pilot operated check valves

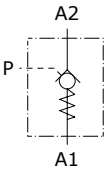
- Single acting

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

	VUPSL 14 ⁽¹⁾	VUPSL 38	VUPSL 12	VUPSL 34	VUPSL 100
Nominal flow	25 l/min (6.6 US gpm)	40 l/min (10.6 US gpm)	60 l/min (15.9 US gpm)	90 l/min (23.8 US gpm)	130 l/min (34.3 US gpm)
Max. pressure	350 bar (5100 psi)	350 bar (5100 psi)	350 bar (5100 psi)	300 bar (4350 psi)	260 bar (3750 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 -28°C (-18°F) to 100°C (212°F)				
Environmental temp. for working conditions	from -40°C (-40°F) to 100°C (212°F)				
Weight	steel 0.69 kg (1.52 lb)	0.93 kg (2.05 lb)	1.08 kg (2.38 lb)	2.316 kg (5.10 lb)	2.355 kg (5.19 lb)

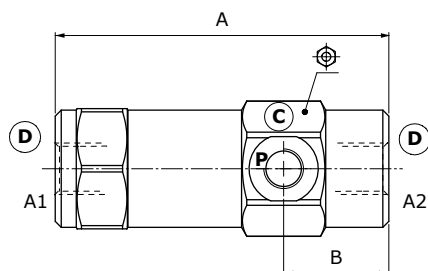
NOTE - For different conditions, please contact Sales Dpt.

⁽¹⁾ VUPSL14 valve require the bonded seal cod. 440068 on port P.



Dimensions

Valve type	P	D
VUPSL 14	G1/4	G1/4
VUPSL 38	G1/4	G3/8
VUPSL 12	G1/4	G1/2
VUPSL 34	G1/4	G3/4
VUPSL 100	G1/4	G1

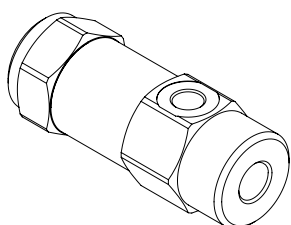


Dimensions are in mm-in

Valve type	A	B	C
VUPSL 14	103-4.05	32.5-1.28	36
VUPSL 38	111-4.37	35-1.38	40
VUPSL 12	122-4.8	38-1.5	42
VUPSL 34	145.5-5.73	44.5-1.75	55
VUPSL 100	164-6.46	44.5-1.75	55

Ordering codes and description composition

Port size Opening pressure
VUPSL 38/p6 /Pa1
 Pilot ratio



VUPSL complete valves

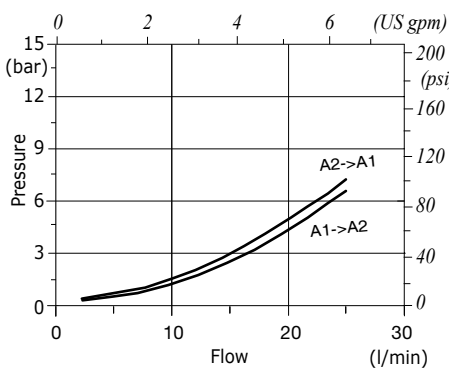
With steel body

TYPE	CODE	DESCRIPTION
VUPSL 14/p9,5/Pa1	1401010100	G1/4 port, pilot ratio 1:9.5
VUPSL 38/p6/Pa1	1401020100	G3/8 port, pilot ratio 1:6
VUPSL 12/p4,3/Pa1	1401030100	G1/2 port, pilot ratio 1:4.3
VUPSL 34/p4,4/Pa1	1401040100	G3/4 port, pilot ratio 1:4.4
VUPSL 100/p3,5/Pa1	1401050100	G1" port, pilot ratio 1:3.5

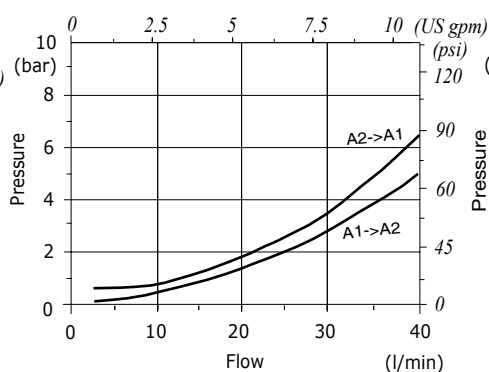
For different configurations or SAE thread please contact our Sales Dpt.

Rating diagrams

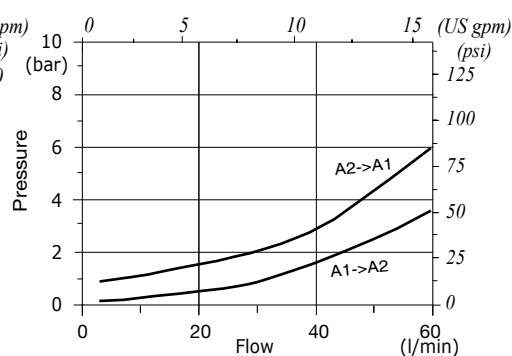
VUPSL 14 pressure drop vs. flow



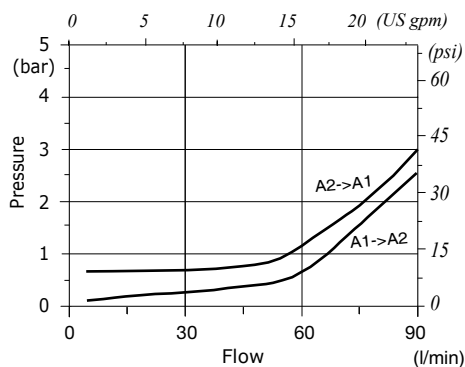
VUPSL 38 pressure drop vs. flow



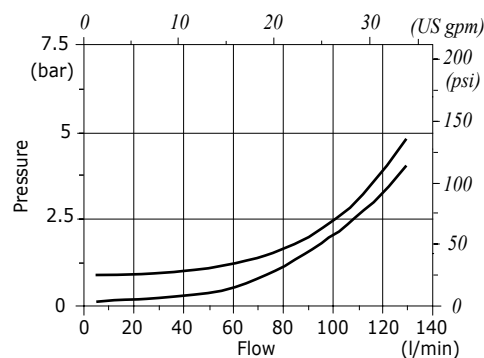
VUPSL 12 pressure drop vs. flow



VUPSL 34 pressure drop vs. flow



VUPSL 100 pressure drop vs. flow

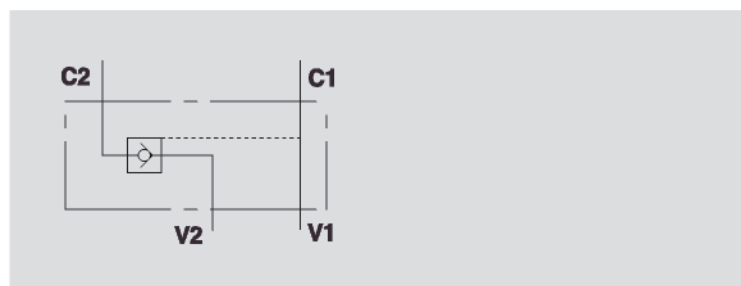
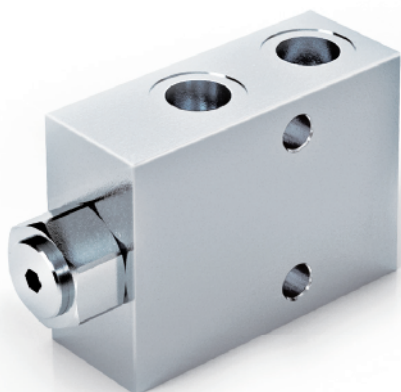


VALVOLE DI BLOCCO A SEMPLICE EFFETTO A 4 VIE TIPO A

SINGLE PILOT OPERATED CHECK VALVES TYPE A

TIPO / TYPE
VBPSE A

SCHEMA IDRAULICO
HYDRAULIC DIAGRAM



IMPIEGO:

Valvola utilizzata per bloccare in posizione un cilindro in un solo senso, consentendo il flusso in una direzione ed impedendolo in senso contrario fino a quando non viene applicata la pressione di pilotaggio.

MATERIALI E CARATTERISTICHE:

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

MONTAGGIO:

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

A RICHIESTA

- senza guarnizione OR sul pilota
- molla 1 Bar
- molla 8 Bar

PERDITE DI CARICO
PRESSURE DROP CURVE

USE AND OPERATION:

These valves are used to block the cylinder in one direction. Flow is free in one direction and blocked in the reverse direction until pilot pressure is applied.

MATERIALS AND FEATURES:

Body: zinc-plated steel.
Internal parts: hardened and ground steel.
Seals: BUNA N standard.
Leakage: Guided poppet - negligible leakage.

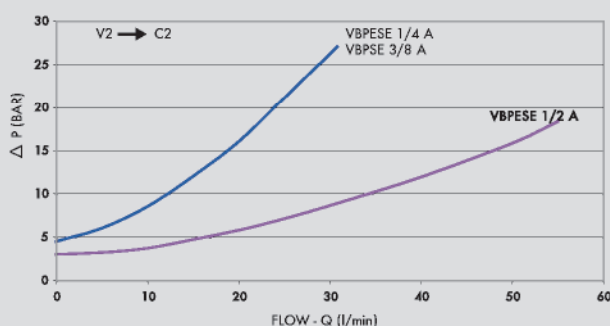
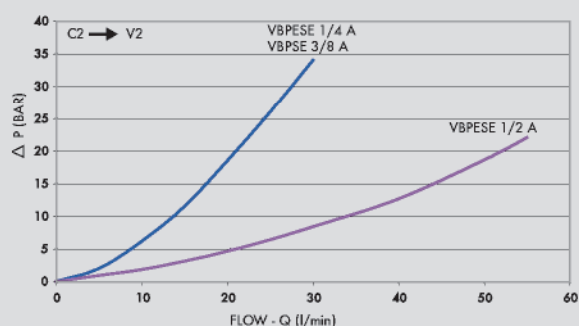
CONNECTIONS:

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.

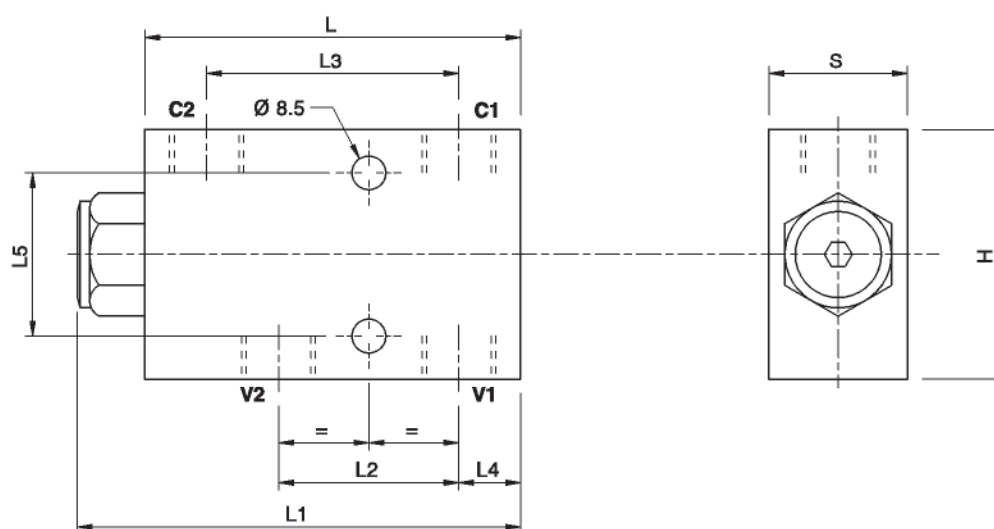
ON REQUEST

- without seal on pilot piston
- 1 Bar spring
- 8 Bar spring

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	PRESSIONE APERTURA CRACKING PRESSURE Bar
V0272	VBPSE 1/4" A	1:8	20	350	4,5
V0274	VBPSE 3/8" A	1:8	30	350	4,5
V0276	VBPSE 1/2" A	1:4,5	55	350	5,5

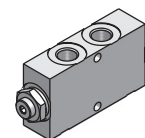
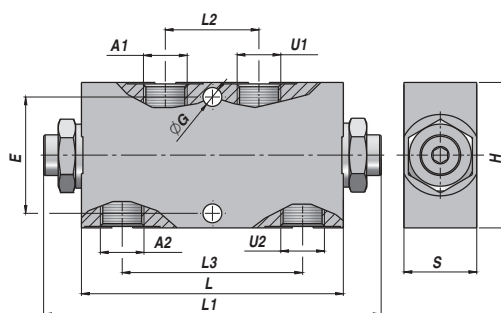
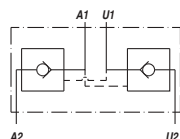


CODICE CODE	SIGLA TYPE	V1 - V2 C1 - C2 GAS	L mm	L1 mm	L2 mm	L3 mm	L4 mm	L5 mm	H mm	S mm	PESO WEIGHT kg
V0272	VBPSE 1/4" A	G 1/4"	80	96	33,5	50	15	40	60	30	1,028
V0274	VBPSE 3/8" A	G 3/8"	80	96	33,5	50	15	40	60	30	0,996
V0276	VBPSE 1/2" A	G 1/2"	105	121	49	70	17,5	40	80	35	2,000

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

DOUBLE EFFET
DOUBLE ACTING

VPDE



Code Code	A1 - U1 BSP	A2 - U2 BSP	Q MAX l/min	P MAX bar	PILOT RATIO	Type Type	L	L1	L2	L3	ØG	E	H	S	kg
VSG352.104004 **	1/4"	1/4"	20	350	1:4	VPDE 010	90	113	32	62	6.5	40	50	25	0,79
VSG352.154004 **	3/8"	3/8"	20	350	1:4	VPDE 015	90	113	32	62	6.5	40	50	25	0,76
VAG352.207004 *	3/8"	3/8"	35	210	1:7	VPDE 020	96	113	32	62	6.5	40	60	35	0,62
VAG352.257004 *	1/2"	1/2"	35	210	1:7	VPDE 025	96	113	32	62	6.5	40	60	35	0,60
VAG352.305004 *	1/2"	1/2"	50	210	1:5.2	VPDE 030	117	139	43	84	10.1	40	70	40	1,00

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

** Etanchéité par sphère - Ball type

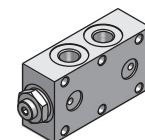
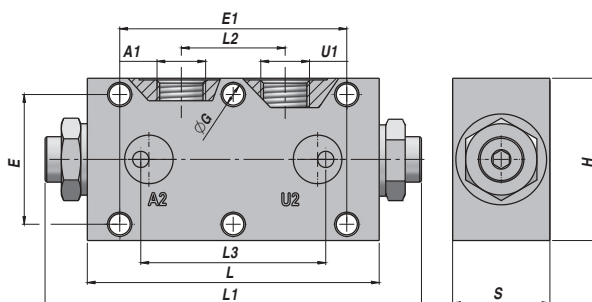
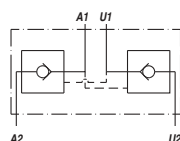
MATERIEL CORPS : ACIER /* = ALUMINIUM
BODY MATERIAL : STEEL /* = ALUMINIUM

MONTAGE EN LIGNE
LINE MOUNTING

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

DOUBLE EFFET
DOUBLE ACTING

VPDE/F



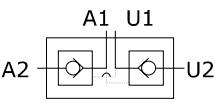
Code Code	A1 - U1 BSP	A2 - U2	Q MAX l/min	P MAX bar	PILOT RATIO	Type Type	L	L1	L2	L3	ØG	E	E1	H	S	kg
VAG353.104004 **	1/4"	Ø5	20	210	1:4	VPDE-F 010	90	113	32	52	6.5	40	70	50	30	0,43
VAG353.154004 **	3/8"	Ø5	20	210	1:4	VPDE-F 015	90	113	32	52	6.5	40	70	50	30	0,43
VSG353.205187	3/8"	Ø6	30	350	1:5.5	V0187	90	117	32	62	6.5	40	70	60	35	1.34

Pression d'ouverture - Opening pressure : bar 0,5 - 4 (standard) - 8

** Etanchéité par sphère - Ball type

MATERIEL CORPS : ACIER /* = ALUMINIUM
BODY MATERIAL : STEEL /* = ALUMINIUM

FLASQUABLE
FACE MOUNTING

SCHEDA - CARD	PRODOTTO - PRODUCT	SCHEMA - SCHEMA	VPDE
G25/0			VALVOLA DI RITEGNO DOPPIO EFFETTO PILOTATA IN LINEA DUAL PILOT OPERATED CHECK VALVE LINE MOUNTING

APPLICAZIONE

Sono utilizzate per bloccare in posizione un attuatore e renderlo insensibile alle forze esterne.

MONTAGGIO

Collegare le bocche A2 e U2 all'attuatore e le bocche A1 e U1 all'alimentazione.

FUNZIONAMENTO

Il fluido passa libero da A1 verso A2 alimentando la bocca dell'attuatore ad esso collegata. Contemporaneamente il pistoncino pilota apre il ritegno sulla bocca U2 permettendo il ritorno del flusso libero verso U1. Alimentando U1 si ottiene l'operazione contraria.

A RICHIESTA

Corpo in acciaio zincato - Molle 0,5 Bar - Molle 8 Bar - Tenuta in Viton - Senza guarnizione OR sul pilota - Marcatura personalizzabile.

NOTE COSTRUTTIVE

Collettore in acciaio dimensione 01 e 015 - Collettore in alluminio dimensione 02, 025 e 03 - Componenti interni trattati termicamente - Non ammette trafilamenti. Otturatore conico, tranne versione 01 (sferico).

APPLICATION

They are used to hold and lock an actuator in position until pilot pressure is applied.

INSTALLATION

Connect A2 and U2 ports to the actuator ports, and connect A1 and U1 to the pressure flows.

OPERATION

This valve allows flow from A1 port to A2 port and feeds the actuator port connected to it. At the same time, the pressure flow in A1 opens the relief valve on U2 port, thus allowing the flow return towards U1. The opposite situation occurs when pressure flow passes from U1 port to U2 port.

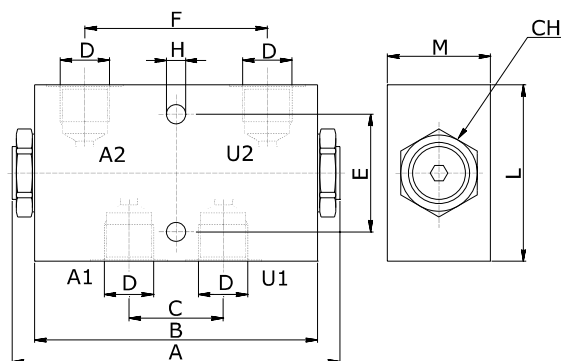
OPTIONAL

Zinc plated steel body - Spring set at 0.5 or 8 bar - Viton seals - Without o-ring seal on pilot piston - Custom marking.

FEATURES

Aluminium body: 02, 025 and 03 dimensions - Steel body: 01 and 015 dimensions - Hardened components - No leakage. Poppet except 01 version (spheric).

CARATTERISTICHE - HYDRAULIC FEATURES					
Dimensione <i>Dimension</i>	01	015	02	025	03
Pressione max <i>Max pressure (bar)</i>	350	350	350	350	300
Portata max <i>Max Flow (l/min)</i>	20	20	35	35	50
Rapporto d'apertura <i>Pilot Ratio</i>	1:4	1:4	1:7	1:7	1:5.2
Pressione d'apertura <i>Cracking Pressure (bar)</i>	4	4	4	4	4

**DIMENSIONI E PESI - EXTERNAL DIMENSIONS AND WEIGHTS**

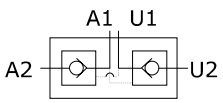
Dimensione <i>Dimension</i>	A	B	C	D gas	D npt	D sae	E	F	H	L	M	CH	Peso <i>Weight (kg)</i>
01	113	90	32	1/4	1/4	7/16-20	40	62	6.5	50	25	22	0.79
015	113	90	32	3/8	3/8	9/16-18	40	62	6.5	50	25	22	0.76
02	113	96	32	3/8	3/8	3/4-16	40	62	6.5	60	35	27	0.62
025	113	96	32	1/2	1/2	7/8-14	40	62	6.5	60	35	27	0.60
03	139	117	43	1/2	1/2	7/8-14	40	84	10.1	70	40	32	1.00

CODICE ORDINAZIONE - ORDERING CODE

VPDE		Dimensione - Dimension		Tipo Filetto Port type	
Tipo-Type		GAS	NPT	SAE	
01	1/4	1/4	7/16-20		GAS
015	3/8	3/8	9/16-18		
02	3/8	3/8	3/4-16		NPT
025	1/2	1/2	7/8-14		
03	1/2	1/2	7/8-14		SAE

ESEMPIO ORDINAZIONE - ORDERING CODE EXAMPLE

VPDE 025	VPDE - Dimensione 025 - Tipo Filetto 1/2 GAS / VPDE - 025 Dimension - 1/2 GAS Port thread
VPDE 02 S	VPDE - Dimensione 02 - Tipo Filetto 3/4-16 SAE / VPDE - 02 Dimension - 3/4-16 SAE Port thread

SCHEDA - CARD	PRODOTTO - PRODUCT	SCHEMA - SCHEMA	VPDE
G30/0			VALVOLA DI RITEGNO DOPPIO EFFETTO PILOTATA FLANGIATA DUAL PILOT OPERATED CHECK VALVE FLANGED MOUNTING

APPLICAZIONE

Sono utilizzate per bloccare in posizione un attuatore e renderlo insensibile alle forze esterne. Attacco diretto tramite frangitura.

MONTAGGIO

Collegare le bocche A2 e U2 all'attuatore tramite la frangitura e le bocche A1 e U1 all'alimentazione.

FUNZIONAMENTO

Il fluido passa libero da A1 verso A2 alimentando la bocca dell'attuatore ad esso collegata. Contemporaneamente il pistoncino pilota apre il ritegno sulla bocca U2 permettendo il ritorno del flusso libero verso U1. Alimentando U1 si ottiene l'operazione contraria.

A RICHIESTA

Corpo in acciaio zincato - Molle 0,5 Bar - Molle 8 Bar - Tenuta in Viton - Senza guarnizione OR sul pilota - Semplice effetto - Marcatura personalizzabile.

NOTE COSTRUTTIVE

Collettore in alluminio - Complete di tenute OR - Componenti interni trattati termicamente - Non ammette trafilamenti.

APPLICATION

They are used to hold and lock an actuator in position until pilot pressure is applied. They can be flanged directly to the actuator.

INSTALLATION

Fix A2 and U2 ports to the actuator port and A1 and U1 to pressure flow.

OPERATION

This valve allows flow from A1 port to A2 port and feeds the actuator port connected to it. At the same time, the pressure flow in A1 opens the relief valve on U2 port, thus allowing the flow return towards U1. The opposite situation occurs when pressure flow passes from U1 port to U2 port.

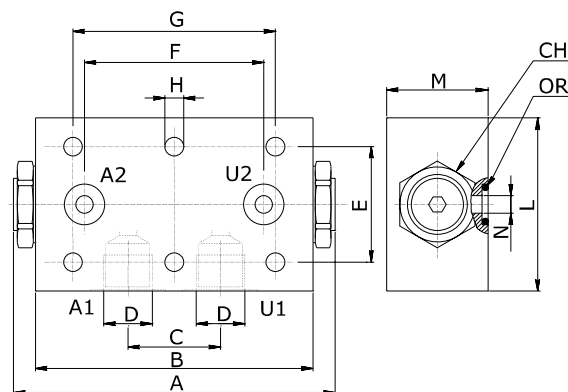
OPTIONAL

Steel body - Zinc plated - Spring set at 0.5 or 8 bar - Viton seals - Without o-ring on pilot piston - Single action - Custom marking.

FEATURES

Aluminium body - With o-ring seal on pilot piston - Hardened components - No leakage.

CARATTERISTICHE - HYDRAULIC FEATURES				
Dimensione Dimension	01	015	02	025
Pressione max Max pressure (bar)	350	350	350	350
Portata max Max Flow (l/min)	20	20	35	35
Rapporto d'apertura Pilot Ratio	1:4	1:4	1:7	1:7
Pressione d'apertura Cracking Pressure (bar)	4	4	4	4

**DIMENSIONI E PESI - EXTERNAL DIMENSIONS AND WEIGHTS**

Dimensione Dimension	A	B	C	D gas	D npt	D sae	E	F	G	H	L	M	N	CH	OR NBR 70	Peso Weight (kg)
01	113	90	32	1/4	1/4	7/16-20	40	52	70	6.5	50	30	5	22	2x11	0.43
015	113	90	32	3/8	3/8	9/16-18	40	52	70	6.5	50	30	5	22	2x11	0.43
02	113	96	32	3/8	3/8	3/4-16	40	62	70	6.5	60	35	5	27	2.62x9.19	0.60
025	113	96	32	1/2	1/2	7/8-14	40	62	70	6.5	60	35	5	27	2.62x9.19	0.60

CODICE ORDINAZIONE - ORDERING CODE**VPDE****F**

Dimensione - Dimension			
Tipo-Type	GAS	NPT	SAE
01	1/4	1/4	7/16-20
015	3/8	3/8	9/16-18
02	3/8	3/8	3/4-16
025	1/2	1/2	7/8-14

Tipo Filetto Port type	
	GAS
N	NPT
S	SAE

ESEMPIO ORDINAZIONE - ORDERING CODE EXAMPLE

VPDE 025 F	VPDE - Dimensione 025 - Tipo Filetto 1/2 GAS / VPDE - 025 Dimension - 1/2 GAS Port thread
VPDE 02 F S	VPDE - Dimensione 02 - Tipo Filetto 3/4-16 SAE / VPDE - 02 Dimension - 3/4-16 SAE Port thread

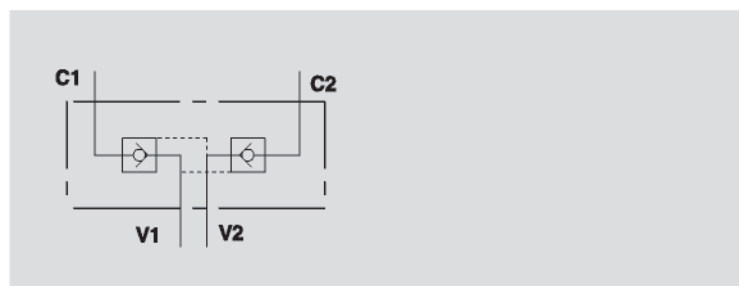
V1890.0xxx

VALVOLE DI BLOCCO PILOTATE A DOPPIO EFFETTO FLANGIABILI

DOUBLE PILOT OPERATED CHECK VALVES FLANGEABLE

TIPO / TYPE
VBPDE FL

SCHEMA IDRAULICO
HYDRAULIC DIAGRAM



IMPIEGO:

Valvola utilizzata per bloccare in posizione un cilindro in entrambi i sensi, consentendo il flusso in una direzione ed impedendolo in senso contrario fino a quando non viene applicata la pressione di pilotaggio. Il montaggio a flangia permette il montaggio direttamente sull'attuatore.

MATERIALI E CARATTERISTICHE:

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

MONTAGGIO:

Collegare V1 e V2 all'alimentazione e C1 e C2 all'attuatore tramite flangiatura.

A RICHIESTA

- senza guarnizione OR sul pilota
- molla 1 Bar
- molla 8 Bar

USE AND OPERATION:

Pilot check valves are used to block the cylinder in both directions. Flow is free in one direction and blocked in the reverse direction until pilot pressure is applied. Face mounting enables assembly directly onto the cylinder.

MATERIALS AND FEATURES:

Body: zinc-plated steel.
Internal parts: hardened and ground steel.
Seals: BUNA N standard.
Leakage: Guided poppet - negligible leakage.

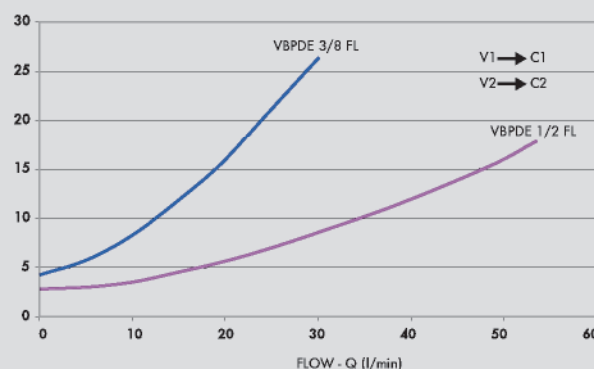
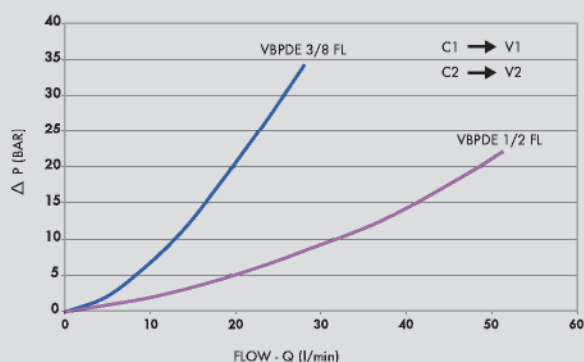
CONNECTIONS:

Connect V1 and V2 to the supply and C1 and C2 to the actuator through the flange.

ON REQUEST

- without seal on pilot piston
- 1 Bar spring
- 8 Bar spring

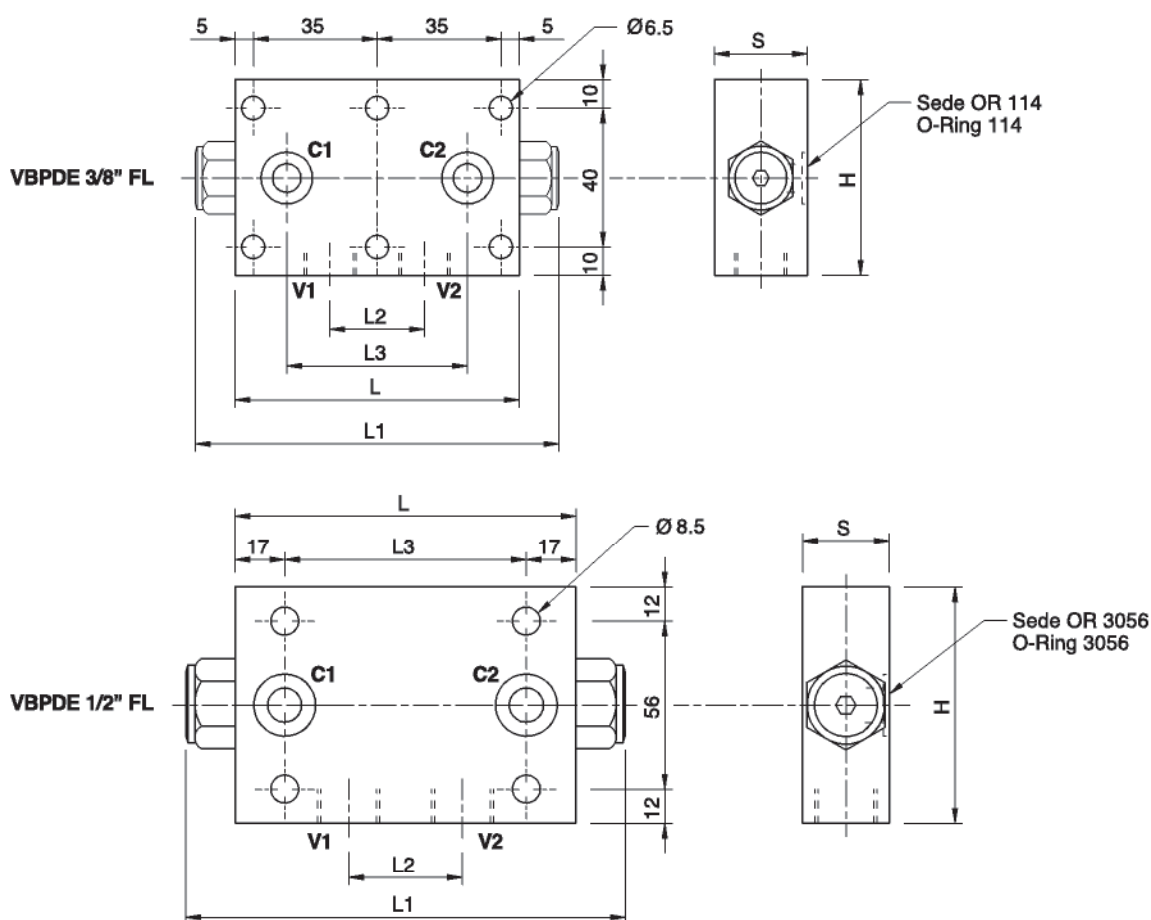
PERDITE DI CARICO PRESSURE DROP CURVE



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

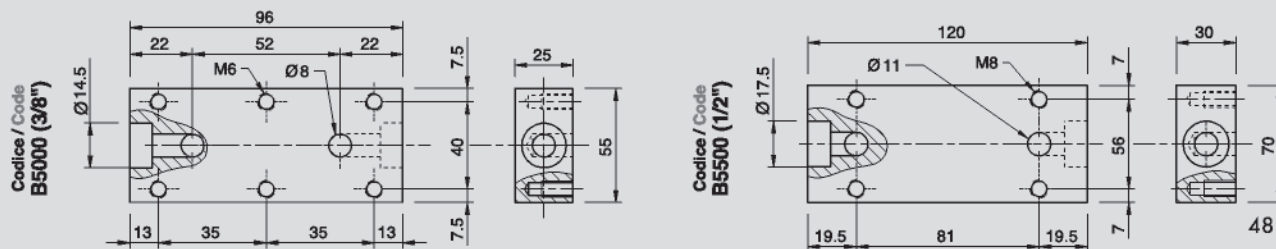
V1890.0xxx

CODICE CODE	SIGLA TYPE	RAPP. PILOT PILOT RATIO	PORTATA MAX MAX FLOW Lt. / min	PRESSIONE MAX MAX PRESSURE Bar	PRESSIONE APERTURA CRACKING PRESSURE Bar
V0185	VBPDE 3/8" FL	1:5,5	30	350	4,5
V0195	VBPDE 1/2" FL	1:4,5	55	350	5,5
V0187	VBPDE 3/8" FL - L3=62	1:5,5	30	350	4,5



CODICE CODE	SIGLA TYPE	V1 - V2 GAS	C1 - C2 mm	L mm	L1 mm	L2 mm	L3 mm	H mm	S mm	PESO WEIGHT kg
V0185	VBPDE 3/8" FL	G 3/8"	Ø6,5	80	113	30	52	60	30	1,018
V0195	VBPDE 1/2" FL	G 1/2"	Ø11	115	147	39	81	80	35	2,362
V0187	VBPDE 3/8" FL - L3=62	G 3/8"	Ø6	90	117	32	62	60	35	1,342

BASE PER VALVOLE VALVE'S FLANGES

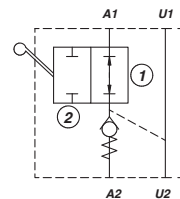
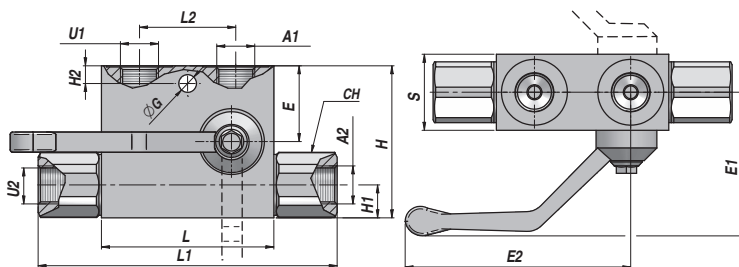
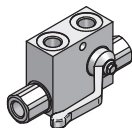


CLAPETS ANTI-RETOUR PILOTES - PILOT OPERATED CHECK VALVES

VRPSE

**SIMPLE EFFET
SINGLE ACTING**

**CLAPET ANTI-RETOUR PILOTE + BY PASS (ETANCHEITE PAR CONE)
PILOT OPERATED CHECK VALVE + BY PASS (POPPET TYPE)**



Code Code	A1 - U1 BSP	A2 - U2 BSP	Q MAX l/min	P MAX bar	PILOT RATIO	Type Type	L	L1	L2	E	E1 max	E2 max	ØG	H2	CH	H1	H	S	kg
Version gauche - Left version																			
VSG331.104504	1/4"	1/4"	25	350	1:4.5	VRPSE 010-FL	68	118	38	29.0	65	90	7.0	7	24	13	60	30	0,95
VSG331.154504	3/8"	3/8"	25	350	1:4.5	VRPSE 015-FL	68	118	38	29.0	65	90	7.0	7	24	13	60	30	0,95
VSG331.204504	3/8"	3/8"	50	300	1:4	VRPSE 020-FL	80	143	40	25.5	60	100	8.5	9	27	16	60	30	1,12
VSG331.254504	1/2"	1/2"	50	300	1:4	VRPSE 025-FL	80	143	40	25.5	60	100	8.5	9	27	16	60	30	1,12
Version droite - Right version																			
VSG332.104504	1/4"	1/4"	25	350	1:4.5	VRPSE 010-FR	68	118	38	29.0	65	90	7.0	7	24	13	60	30	0,95
VSG332.154504	3/8"	3/8"	25	350	1:4.5	VRPSE 015-FR	68	118	38	29.0	65	90	7.0	7	24	13	60	30	0,95
VSG332.204504	3/8"	3/8"	50	300	1:4	VRPSE 020-FR	80	143	40	25.5	60	100	8.5	9	27	16	60	30	1,12
VSG332.254504	1/2"	1/2"	50	300	1:4	VRPSE 025-FR	80	143	40	25.5	60	100	8.5	9	27	16	60	30	1,12

Pression d'ouverture - Opening pressure : bar 0,5 - 4 (standard) - 8

SUR DEMANDE - ON REQUEST : "VRPDE..." CLAPET ANTI-RETOUR PILOTE DOUBLE EFFET - DOUBLE EFFECT VALVE

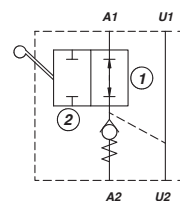
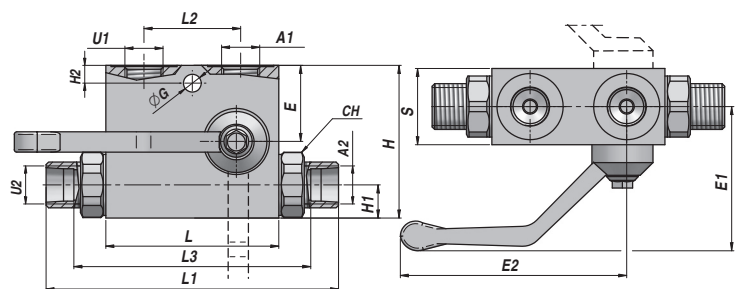
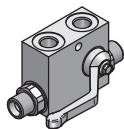
MATERIEL CORPS : ACIER
BODY MATERIAL : STEEL

MONTAGE SUR VERIN
CYLINDER MOUNTING

VRPSE-DIN

**SIMPLE EFFET
SINGLE ACTING**

**CLAPET ANTI-RETOUR PILOTE DIN 2353 + BY PASS (ETANCHEITE PAR CONE)
PILOT OPERATED CHECK VALVE DIN 2353 + BY PASS (POPPET TYPE)**



Code Code	A1 - U1 BSP	A2 - U2	T	Q MAX l/min	P MAX bar	PILOT RATIO	Type Type	L	L1	L2	L3	E	E1 max	E2 max	ØG	H2	CH	H1	H	S	kg
Version gauche - Left version																					
VSG333.104504	1/4"	Ø12	M18x1.5	25	350	1:4.5	VRPSE-DIN 010-FL	68	115	38	86	29.0	65	90	7.0	7	24	13	60	30	0,95
VSG333.154504	3/8"	Ø12	M18x1.5	25	350	1:4.5	VRPSE-DIN 015-FL	68	115	38	86	29.0	65	90	7.0	7	24	13	60	30	0,95
VSG333.204504	3/8"	Ø15	M22x1.5	50	300	1:4	VRPSE-DIN 020-FL	80	140	40	106	25.5	60	100	8.5	9	27	16	60	30	1,12
VSG333.254504	1/2"	Ø15	M22x1.5	50	300	1:4	VRPSE-DIN 025-FL	80	140	40	106	25.5	60	100	8.5	9	27	16	60	30	1,12
Version droite - Right version																					
VSG334.104504	1/4"	Ø12	M18x1.5	25	350	1:4.5	VRPSE-DIN 010-FR	68	115	38	86	29.0	65	90	7.0	7	24	13	60	30	0,95
VSG334.154504	3/8"	Ø12	M18x1.5	25	350	1:4.5	VRPSE-DIN 015-FR	68	115	38	86	29.0	65	90	7.0	7	24	13	60	30	0,95
VSG334.204504	3/8"	Ø15	M22x1.5	50	300	1:4	VRPSE-DIN 020-FR	80	140	40	106	25.5	60	100	8.5	9	27	16	60	30	1,12
VSG334.254504	1/2"	Ø15	M22x1.5	50	300	1:4	VRPSE-DIN 025-FR	80	140	40	106	25.5	60	100	8.5	9	27	16	60	30	1,12

Pression d'ouverture - Opening pressure : bar 0,5 - 4 (standard) - 8

SUR DEMANDE - ON REQUEST : "VRPDE..." CLAPET ANTI-RETOUR PILOTE DOUBLE EFFET - DOUBLE EFFECT VALVE

MATERIEL CORPS : ACIER
BODY MATERIAL : STEEL

MONTAGE SUR VERIN
CYLINDER MOUNTING



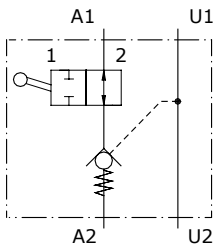
Type VBPSL/R
pilot operated check valves

- Single acting
- Shut-off

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

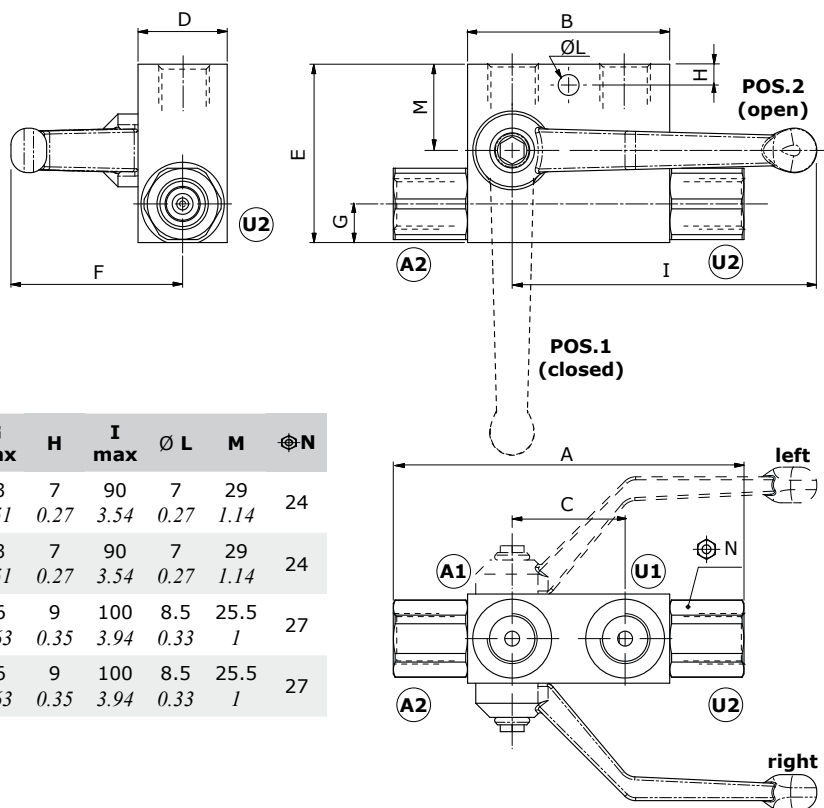
	VBPSL/R..14	VBPSL/VP/R..38	VBPSL/R..38	VBPSL/VP/R..12
Nominal flow	25 l/min (6.6 US gpm)	25 l/min (6.6 US gpm)	50 l/min (13.2 US gpm)	50 l/min (13.2 US gpm)
Max. pressure	350 bar (5100 psi)	350 bar (5100 psi)	300 bar (4350 psi)	300 bar (4350 psi)
Oil leakage	0.25 cm ³ /min (0.015 in ³ /min) at 210 bar (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 temp. for working conditions	from -40°C (-40°F) to 100°C (212°F)			
Weight	steel	0.95 kg (2.09 lb)	0.95 kg (2.09 lb)	1.12 kg (2.47 lb)

NOTE - For different conditions, please contact Sales Dpt.



Dimension

Valve type	All ports
VBPSL/R..14	G1/4
VBPSL/VP/R..38	G3/8
VBPSL/R..38	G3/8
VBPSL/VP/R..12	G1/2



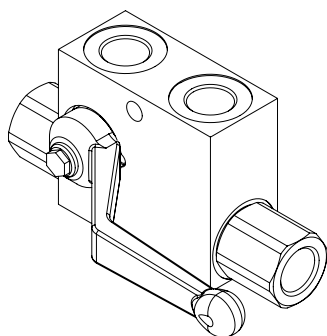
Dimensions are in mm-in

Valve type	A	B	C	D	E	F max	G max	H	I max	Ø L	M	⊕ N
VBPSL/R..14	118 4.64	68 2.68	38 1.50	30 1.18	60 2.36	65 2.56	13 0.51	7 0.27	90 3.54	7 0.27	29 1.14	24
VBPSL/VP/R..38	118 4.64	68 2.68	38 1.50	30 1.18	60 2.36	65 2.56	13 0.51	7 0.27	90 3.54	7 0.27	29 1.14	24
VBPSL/R..38	143 5.63	80 3.15	40 1.57	30 1.18	60 2.36	60 2.36	16 0.63	9 0.35	100 3.94	8.5 0.33	25.5 1	27
VBPSL/VP/R..12	143 5.63	80 3.15	40 1.57	30 1.18	60 2.36	60 2.36	16 0.63	9 0.35	100 3.94	8.5 0.33	25.5 1	27

Ordering codes and description composition

D - right
S - left
Port size

VBPSL/R D 14



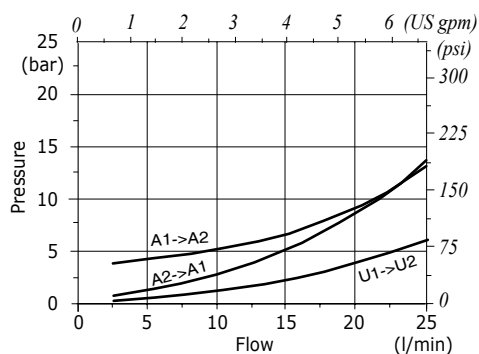
VBPSLR complete valves

TYPE	CODE	DESCRIPTION
VBPSL/R/S 14/p4,5/Pa4/ac	1415312100	Steel body, opening pressure 4 bar (58 psi), pilot ratio 1:4.5, G1/4 ports, left lever
VBPSL/R/D 14/p4,5/Pa4/ac	1415312101	As previous with right lever
VBPSL/R/S 38/p4/Pa4/ac	1415322100	Steel body, opening pressure 4 bar (58 psi), pilot ratio 1:4, G3/8 ports, left lever
VBPSL/R/D 38/p4/Pa4/ac	1415322101	As previous with right lever
VBPSL/VP/R/S 38/p4,5/Pa4/ac	1415322102	Steel body, opening pressure 4 bar (58 psi), pilot ratio 1:4.5, G3/8 ports, left lever
VBPSL/VP/R/D 38/p4,5/Pa4/ac	1415322103	As previous with right lever
VBPSL/VP/R/S 12/p4/Pa4/ac	1415332100	Steel body, opening pressure 4 bar (58 psi), pilot ratio 1:4, G1/2 ports, left lever
VBPSL/VP/R/D 12/p4/Pa4/ac	1415332101	As previous with right lever

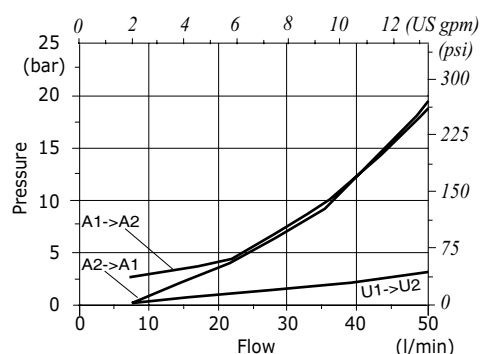
For different configurations or SAE threads please contact our Sales Dpt.

Rating diagram

VBPSL/R..14 pressure drop vs. flow



VBPSL/R..38 pressure drop vs. flow





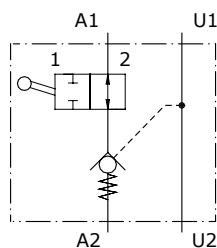
Type VRPSE..A.. pilot operated check valves

- Single acting
- Shut-off
- DIN 2353

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

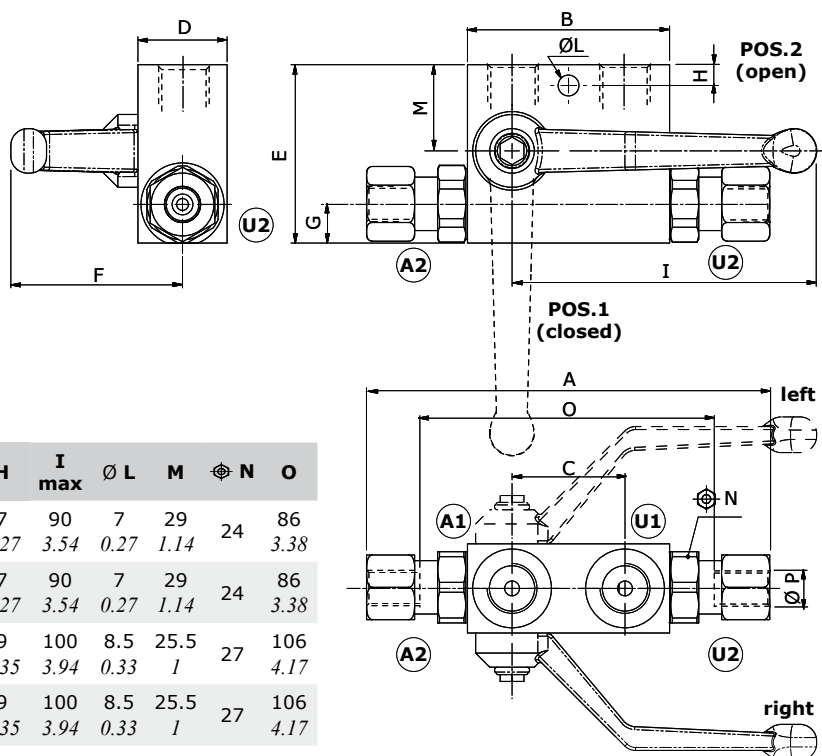
	VRPSE01A..	VRPSE015A..	VRPSE02A..	VRPSE025A..
Nominal flow	25 l/min (6.6 US gpm)	25 l/min (6.6 US gpm)	50 l/min (13.2 US gpm)	50 l/min (13.2 US gpm)
Max. pressure	350 bar (5100 psi)	350 bar (5100 psi)	300 bar (4350 psi)	300 bar (4350 psi)
Oil leakage	0.25 cm ³ /min (0.015 in ³ /min) at 210 bar (3050 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 temp. for working conditions	from -40°C (-40°F) to 100°C (212°F)			
Weight	steel	0.95 kg (2.09 lb)	0.95 kg (2.09 lb)	1.12 kg (2.47 lb)

NOTE - For different conditions, please contact Sales Dpt.



Dimension

Valve type	A1-U1	A2-U2 (Ø P)
VRPSE01A..	G1/4	12 0.27
VRPSE015A..	G3/8	12 0.27
VRPSE02A..	G3/8	15 0.59
VRPSE025A..	G1/2	15 0.59

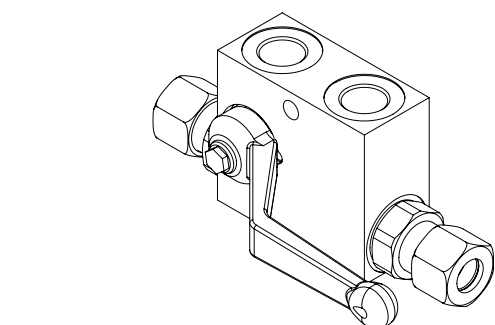


Dimensions are in mm-in

Valve type	A	B	C	D	E	F max	G max	H	I max	Ø L	M	N	O
VRPSE01A..	138 5.43	68 2.68	38 1.50	30 1.18	60 2.36	65 2.56	13 0.51	7 0.27	90 3.54	7 0.27	29 1.14	24	86 3.38
VRPSE015A..	138 5.43	68 2.68	38 1.50	30 1.18	60 2.36	65 2.56	13 0.51	7 0.27	90 3.54	7 0.27	29 1.14	24	86 3.38
VRPSE02A..	140 5.51	80 3.15	40 1.57	30 1.18	60 2.36	60 2.36	16 0.63	9 0.35	100 3.94	8.5 0.33	25.5 1	27	106 4.17
VRPSE025A..	140 5.51	80 3.15	40 1.57	30 1.18	60 2.36	60 2.36	16 0.63	9 0.35	100 3.94	8.5 0.33	25.5 1	27	106 4.17

Ordering codes and description composition

Port size **A** **R** - right
L - left



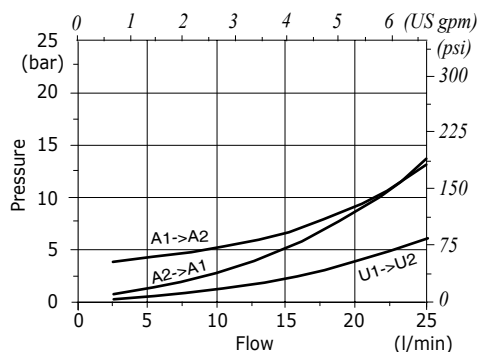
VRPSE complete valves

TYPE	CODE	DESCRIPTION
VRPSE01AL	1415412100	Steel body, opening pressure 4 bar (58 psi), pilot ratio 1:4.5, G1/4 ports, left lever
VRPSE01AR	1415412101	Steel body, opening pressure 4 bar (58 psi), pilot ratio 1:4.5, G1/4 ports, right lever
VRPSE02AL	1415422100	Steel body, opening pressure 4 bar (58 psi), pilot ratio 1:4, G3/8 ports, left lever
VRPSE02AR	1415422101	Steel body, opening pressure 4 bar (58 psi), pilot ratio 1:4, G3/8 ports, right lever
VRPSE015AL	1415422102	Steel body, opening pressure 4 bar (58 psi), pilot ratio 1:4.5, G3/8 ports, left lever
VRPSE015AR	1415422103	Steel body, opening pressure 4 bar (58 psi), pilot ratio 1:4.5, G3/8 ports, right lever
VRPSE025AL	1415432100	Steel body, opening pressure 4 bar (58 psi), pilot ratio 1:4, G1/2 ports, left lever
VRPSE025AR	1415432101	Steel body, opening pressure 4 bar (58 psi), pilot ratio 1:4, G1/2 ports, right lever

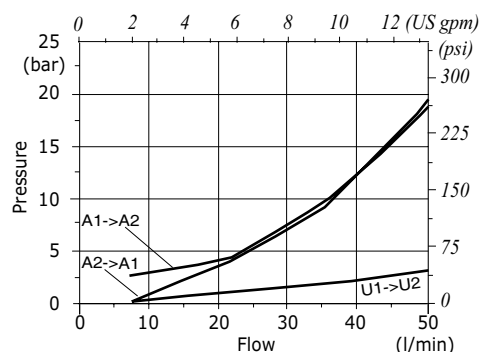
For different configurations or SAE thread please contact our Sales Dpt.

Rating diagram

VRPSE01A pressure drop vs. flow

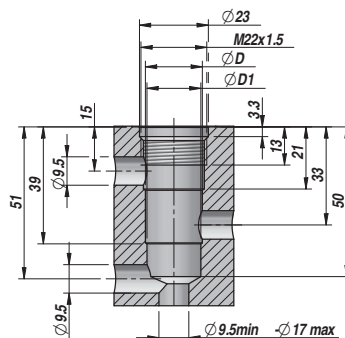
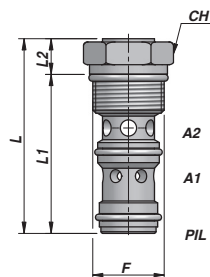
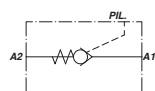


VRPSE02A pressure drop vs. flow



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

VRPC



Code Code	F	Q MAX l/min	P MAX bar	PILOT RATIO	Type Type	L	L1	L2	ØD	ØD1	CH	kg
VCM340.063404	M22x1.5	25	320	1:3.4	VRPC 06	57	49	8	19	18	27	0,10

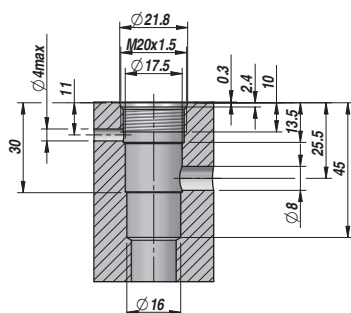
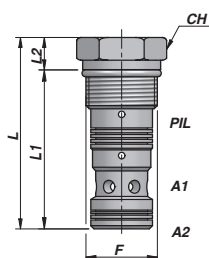
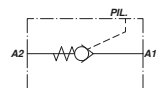
Pression d'ouverture - Opening pressure : 4 bar (standard) - 8

MATERIEL CORPS : ACIER
BODY MATERIAL : STEEL

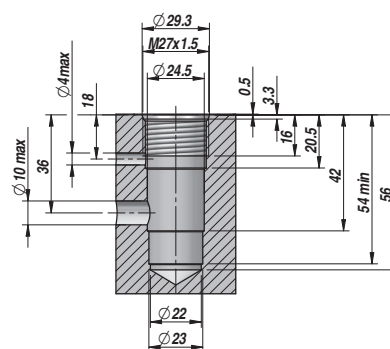
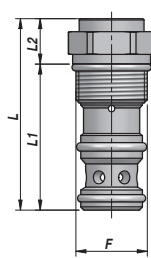
CARTOUCHE
CARTRIDGE

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

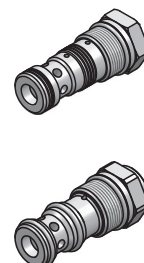
VCP



VCP 03M



VCP 04M



Code Code	F	Q MAX l/min	P MAX bar	PILOT RATIO	Type Type	L	L1	L2	CH	kg
VCM340.033103	M20x1.5	30	350	1:3	VCP 03M	46.3	39.3	7	24	0,08
VCM340.044004	M27x1.5	90	350	1:4	VCP 04M	67.0	49.0	18	32	0,10

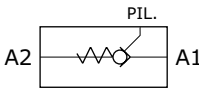
Pression d'ouverture - Opening pressure :

VCP 03M = 3 bar

VCP 04M = 4 bar

MATERIEL CORPS : ACIER
BODY MATERIAL : STEEL

CARTOUCHE
CARTRIDGE

SCHEDA - CARD	PRODOTTO - PRODUCT	SCHEMA - SCHEMA	VRPC
G62/0			VALVOLA DI RITEGNO PILOTATA APERTA A CARTUCCIA CARTRIDGE PILOT-TO-OPEN CHECK VALVE

APPLICAZIONE

Sono utilizzate per bloccare in posizione un attuatore in un solo senso e renderlo insensibile alle forze esterne. Il passaggio del flusso in senso inverso avviene tramite un comando pilota.

MONTAGGIO

Inserire ed avvitare la valvola nell'apposita cavità.

FUNZIONAMENTO

Il fluido passa libero da A1 verso A2 alimentando la porta ad essa collegata.

Per permettere il passaggio del fluido da A2 verso A1 si deve alimentare la porta Pil.

A RICHIESTA

Cavità speciali

NOTE COSTRUTTIVE

Corpo in acciaio zincato - Componenti interni trattati termicamente - Tenuta con otturatore - Non accetta trafilamento.

APPLICATION

This valve blocks the actuator in position until pilot pressure is applied so that it will not be affected by external forces. When pilot pressure is applied, it allows the return flow.

INSTALLATION

Fit the valve into the cavity.

OPERATION

This valve allows flow from A1 port to A2 port and stops the flow in the opposite direction. When pilot pressure is applied to PIL port it allows the return flow from A2 to A1.

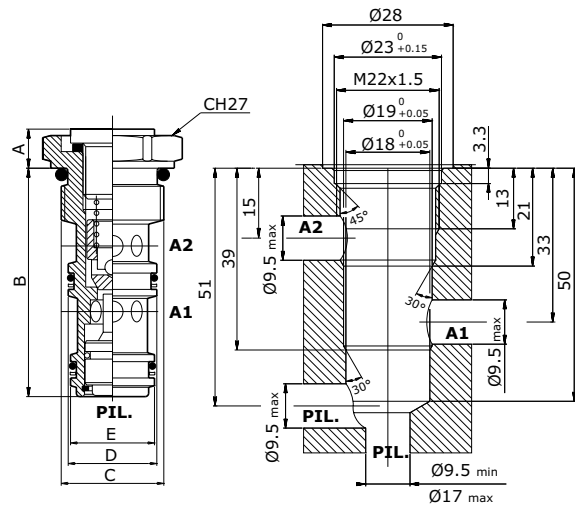
OPTIONAL

Different cavities.

FEATURES

Steel body - Zinc plated - Hardened inside components - O-ring seal on pilot piston
No leakage.

CARATTERISTICHE - HYDRAULIC FEATURES	
Pressione max <i>Max pressure (bar)</i>	320
Portata max <i>Max Flow (l/min)</i>	25
Rapporto d'apertura <i>Pilot Ratio</i>	1:3.4
Pressione d'apertura <i>Cracking Pressure (bar)</i>	4

**DIMENSIONI E PESI - EXTERNAL DIMENSIONS AND WEIGHTS**

Dimensione - Dimension	A	B	C	D	E	Peso - Weight (kg)
VRPC06	8	49	M22x1.5	19	18	0.100

CODICE ORDINAZIONE - ORDERING CODE**VRPC06**

Molla - Spring

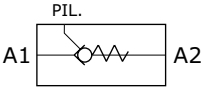
4 bar

-8

8 bar

ESEMPIO ORDINAZIONE - ORDERING CODE EXAMPLE

VRPC06	VRPC06 - Cavità M22x1,5 - Molla 4 bar / VRPC06 - M22x1,5 Cavity - Spring 4 bar
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SCHEDA - CARD	PRODOTTO - PRODUCT	SCHEMA - SCHEMA	VCP
G64/0			VALVOLA DI RITEGNO PILOTATA APERTA A CARTUCCIA CARTRIDGE PILOT-TO-OPEN CHECK VALVE

APPLICAZIONE

Sono utilizzate per bloccare in posizione un attuatore in un solo senso e renderlo insensibile alle forze esterne. Il passaggio del flusso in senso inverso avviene tramite un comando pilota.

MONTAGGIO

Inserire ed avvitare la valvola nell'apposita cavità.

FUNZIONAMENTO

Il fluido passa libero da A1 verso A2 alimentando la porta ad essa collegata. Per permettere il passaggio del fluido da A2 verso A1 si deve alimentare la porta Pil.

A RICHIESTA

Cavità speciali

NOTE COSTRUTTIVE

Corpo in acciaio zincato - Componenti interni trattati termicamente - Tenuta con otturatore - Non accetta trafilamento.

APPLICATION

This valve blocks the actuator in position until pilot pressure is applied so that it will not be affected by external forces. When pilot pressure is applied, it allows the return flow.

INSTALLATION

Fit the valve into the cavity.

OPERATION

This valve allows flow from A1 port to A2 port and stops the flow in the opposite direction. When pilot pressure is applied to PIL port it allows the return flow from A2 to A1.

OPTIONAL

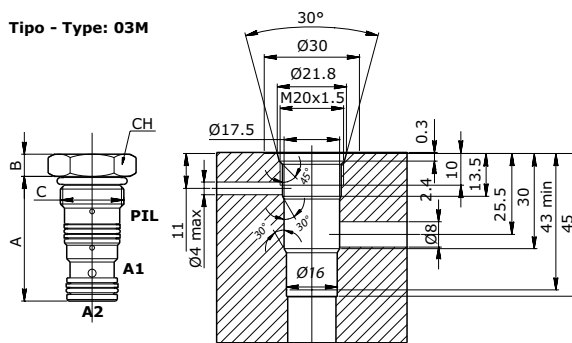
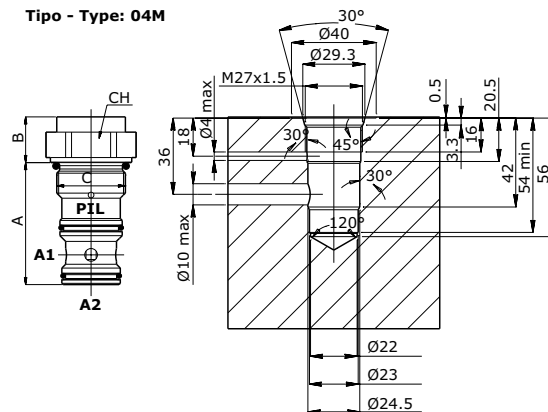
Different cavities.

FEATURES

Steel body - Zinc plated - Hardened inside components - O-ring seal on pilot piston - No leakage.

CARATTERISTICHE - HYDRAULIC FEATURES

Dimensione <i>Dimension</i>	03M	04M
Pressione max <i>Max pressure (bar)</i>	350	350
Portata max <i>Max Flow (l/min)</i>	30	90
Rapporto d'apertura <i>Pilot Ratio</i>	3:1	1:4
Pressione d'apertura <i>Cracking Pressure (bar)</i>	3	4

Tipo - Type: 03M**Tipo - Type: 04M****DIMENSIONI E PESI - EXTERNAL DIMENSIONS AND WEIGHTS**

Dimensione - Dimension	A	B	C	CH	Peso - Weight (kg)
VCP03M	39.3	7	M20x1.5	24	0.080
VCP04M	49	18	M27x1.5	32	0.100

CODICE ORDINAZIONE - ORDERING CODE**VCP03M****VCP04M****ESEMPIO ORDINAZIONE - ORDERING CODE EXAMPLE**

VCP04M VCP04M - Cavità M27x1,5 / VCP04M - M27x1,5 Cavity