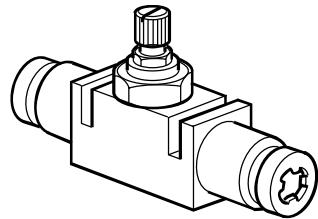


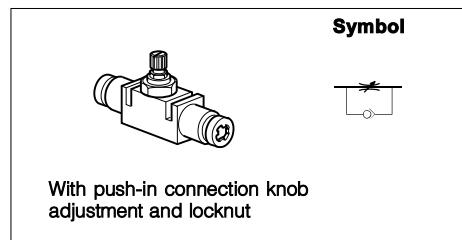
- For inline or surface mounting
- Manual adjustment by knob with lock nut
- Instant push-in fitting
- High flow
- Wide range of sizes



Operating and additional information

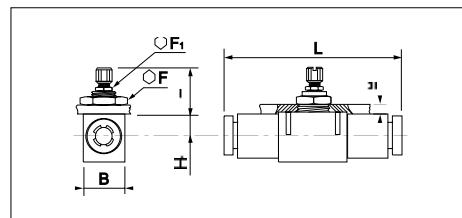
Operating pressure:	1 to 10 bar
Permissible fluids:	Air or neutral gas 50micron or filtration, lubricated or not
Flow:	See table below
Operating temperature:	-15°C to +70°C
Storage temperature:	-20°C to +70°C
Vibration resistance:	Conforming to section 19-2 of Bureau Veritas regulations
Body material:	Thermo plastic
Adjustment mode:	Knurled knob
Adjustment locking:	Hexagonal lock nut

Main data for Speed Controls, PWR-L Series



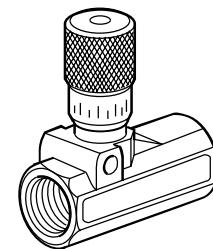
Push-In connection	Adjustment angle	Qmax Input at 6 bar, l/min*	Weight Kg	Order code
4	13	200	0,02	PWR-L1444
6	12	400	0,04	PWR-L1466
8	15	720	0,06	PWR-L1488
10	18	1360	0,13	PWR-L1499
12	20	1950	0,15	PWR-L1411

* Screw closed



Type	B	F	F1	e	H+	H-	H1	L	Q
PWR-L1444	12,0	14	*	6	25,5	21,5	6,5	39,0	10,5
PWR-L1466	17,0	19	*	7	32,5	27,5	7,5	54,0	17,0
PWR-L1488	18,5	24	11	7	34,5	28,5	9,0	60,5	19,0
PWR-L1499	24,0	30	14	7	38,5	29,5	11,5	76,0	25,0
PWR-L1411	28,0	32	14	8	42,0	32,0	12,5	86,0	28,0

- Micrometer type adjustment
- Fine control
- Integral mounting hole
- Non-return and needle valves

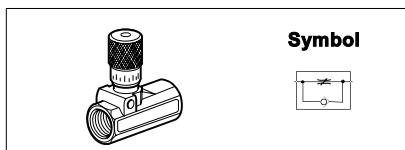


For detailed information see technical leaflet 2140

Operating and additional information

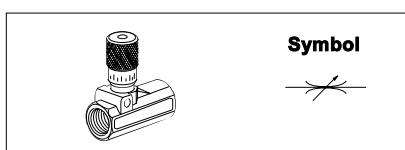
Operating pressure:	0 to 17 bar
Flow:	See curve below
Operating temperature:	-40°C to +80°C
Body material:	Brass
Control knob:	Aluminium
Adjustment mode:	Knurled knob

Flow Control with By-pass



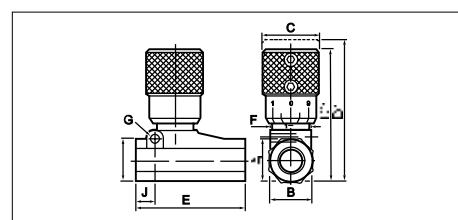
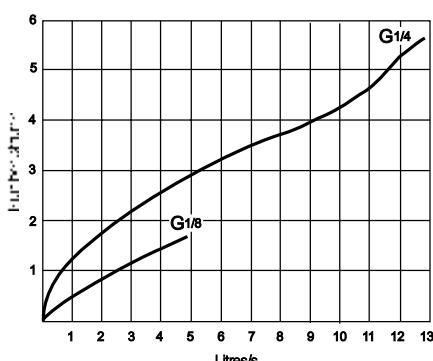
Thread	Number of turns	Qmax Input at 6 bar, l/min	Weight Kg	Order code
G1/8	5	300	0,076	337A
G1/4	6	780	0,134	337B

Flow Control with By-directional Control



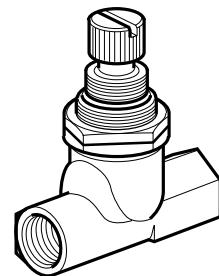
Thread	Number of turns	Qmax Input at 6 bar, l/min	Weight Kg	Order code
G1/8	5	300	0,078	338A
G1/4	6	780	0,132	338B

Micrometer Flow Control Valves - Dimensions



Order code	Port size	A	B	C	D1 open	D2 closed	E	F	G	H	J
337A	G1/8	14,5	14,5	19	51	46	40	12	-	-	-
337B	G1/4	17,5	18,0	19	58	51	50	12	4,8	19	10
338A	G1/8	14,5	14,5	19	51	46	40	12	-	-	-
338B	G1/4	17,5	18,0	19	58	51	50	12	4,8	19	10

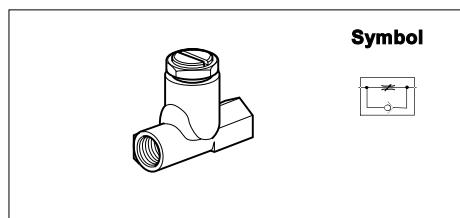
- Screw driver or hand adjustment
- Rugged brass bodies
- Panel mounted versions
- High flow rate
- High flow by-pass
- Wide range of sizes



Operating and additional information

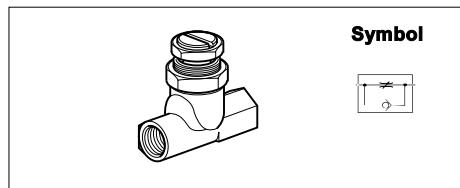
Operating pressure:	0 to 28 bar for air - 0 to 55 bar oil or water
Operating temperature:	-10°C to +80°C
Body material:	Brass
Control knob:	Brass
Adjustment mode:	Knurled knob or screw driver adjustment

Standard Type



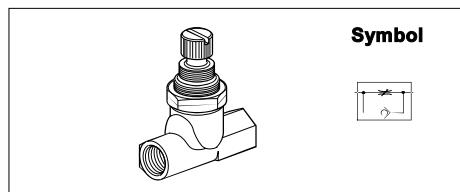
Thread	Number of turns	Qmax Input at 6 bar, l/min*	Weight Kg	Order code
G1/8	6	1320	0,114	B3250X
G1/4	5	2880	0,224	B3250AB
G3/8	5	6300	0,378	B3250BB
G1/2	5	7680	0,792	B3250CB
G3/4	4,5	10680	1,300	B3250DB

Panel Mounting Type



Thread	Number of turns	Qmax Input at 6 bar, l/min*	Weight Kg	Order code
G1/8	6	1320	0,120	B3250XP
G1/4	5	2880	0,226	B3250ABP

Panel Mounted Hand Adjustment Type



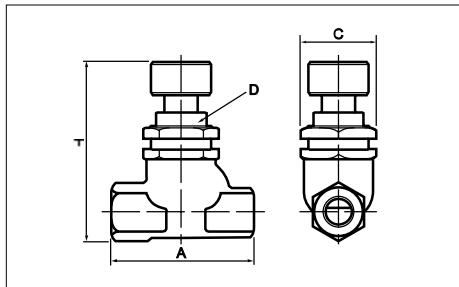
Thread	Number of turns	Qmax Input at 6 bar, l/min*	Weight Kg	Order code
G1/8	6	1320	0,128	B3250HX
G1/4	5	2880	0,238	B3250HA

Heavy Duty Inline Flow Regulator

3250

Dimensions, Flow Control Valves, B3250 Series

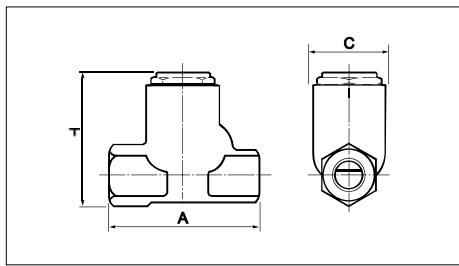
Flow Control Valves, Panel Mounted Hand Adjustment Type



Order code	Port size	A	B	C	D
B3250HX	G1/8	44	57	21	20
B3250HA	G1/4	57	70	32	25

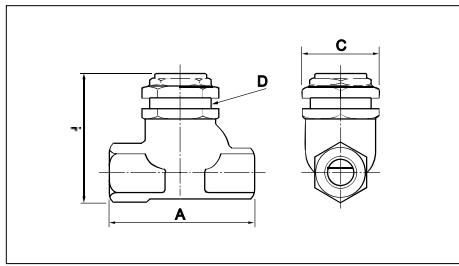


Flow Control Valves, Standard Type



Order code	Port size	A	B	C
B3250X	G1/8	44	40	21
B3250AB	G1/4	57	51	28
B3250BB	G3/8	68	64	35
B3250CB	G1/2	79	78	41
B3250DB	G3/4	90	92	51

Flow Control Valves, Panel Mounted Type

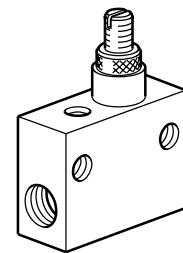


Order code	Port size	A	B	C	D
B3250XP	G1/8	44	40	21	20
B3250ABP	G1/4	57	51	32	25

Speed Flow Control Valves

VQB

- Integral mounting holes
- Screw driver adjustable
- Panel mounting option
- Roller for mechanical actuation available



For detailed information see technical leaflet 9127 0035-02

Operating information

Working pressure Max 10 bar
Working temperature -20 °C to +70 °C

Flow Control Valves with By-pass

Symbol		Thread	Number of turns	Qmax input at 6 bar, l/min*	Weight Kg	Order code
		G1/8	13	72	0,03	VQB12-Q-0X-5*
		G1/8	13	240	0,03	VQB12-Q-0-5
		G1/4	13	1320	0,07	VQB22-Q-0-5
		G1/2	13	3600	0,27	VQB42-Q-0-5

Flow Control Valves with By-directional Control

Symbol		Thread	Number of turns	Qmax Input at 6 bar, l/min*	Weight Kg	Order code
		G1/8	13	72	0,03	VQB12-0X-5*
		G1/8	13	240	0,03	VQB12-0-5
		G1/4	13	1320	0,07	VQB22-0-5
		G1/2	13	3600	0,26	VQB42-0-5

* Extra fine adjustment

Roller Operated, Flow Control Valves with By-pass

Symbol		Thread	Qmax Input at 6 bar, l/min*	Weight Kg	Order code
		G1/4	1320	0,11	VQB22-Q-0WG-5
		G1/2	3600	0,27	VQB42-Q-0WG-5

knob and nut for Panel Mounting

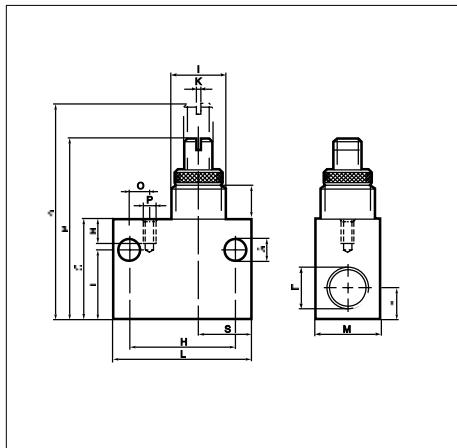
To Suit	Weight Kg	Order code
VQB12	0,008	9128 1772-12
VQB22	0,014	9128 1772-22
VQB42	0,037	9128 1772-42

Speed Flow Control Valves

VQB

Dimensions, Flow Control Valves, VQB Series

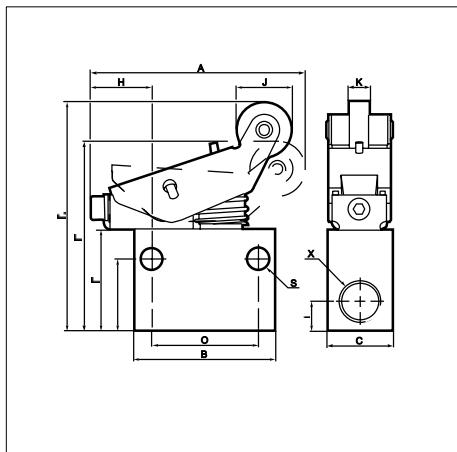
Flow Control Valves - Dimensions



Order code	A	B	C	D	E	F	G	H	I
VQB12-Q-OX-5	49	42	22	15	6,5	G1/8	5,8	24	M12x1
VQB12-Q-O-5	49	42	22	15	6,5	G1/8	5,8	24	M12x1
VQB22-Q-O-5	64	53	30	21	8,5	G1/4	7,0	32	M16x1
VQB42-Q-O-5	99	85	50	36	16,5	G1/2	7,0	50	M24x1,5

Order code	K	L	M	O	P	R	S	T
VQB12-Q-OX-5	1,2	32	15	-	-	-	13,5	8,8
VQB12-Q-O-5	1,2	32	15	-	-	-	13,5	8,8
VQB22-Q-O-5	1,2	42	20	6,0	M4	7	16,0	10,0
VQB42-Q-O-5	1,8	62	30	19,5	M4	7	20,5	15,2

Roller operated, Flow Control Valves - Dimensions

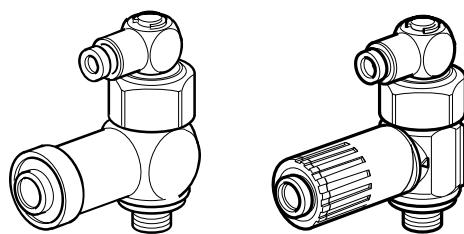


Order code	A	B	C	D	E	F	G	H
VQB22-Q-OWG-5	64,5	42	20	68	55	30	21	18,5
VQB42-Q-OWG-5	64,5	62	30	88	75	50	36	5,0

Order code	J	K	L	O	S	X
VQB22-Q-OWG-5	16	6	8,5	32	7	G1/4
VQB42-Q-OWG-5	16	6	16,5	50	7	G1/2

Unloader and Unloader/Flow Regulator PWE/PWR-HE

- For direct cylinder mounting
- Unloader only or multifunction options
- Threaded or push-in ports
- Unloader/Flow Regulator device adjustable with manual barrel
- Wide range of sizes



Operating information

Operating pressure:	1 to 10 bar
Permissible fluids:	Air or neutral gas 50micron or filtration, lubricated or not
Flow:	See table below
Operating temperature:	-15°C to +60°C
Storage temperature:	-40°C to +70°C
No. of operations with dry air at 6 bar 20°C 1 Hz:	1 million
Maximum operating freqency:	1Hz
Vibration resistance:	Conforming to section 19-2 of Bureau Veritas regulations
Maximum connecting torque:	1/8 = 8Nm ; 1/4 = 12Nm; 3/8 = 30Nm; 1/2 = 35Nm
Body material (Unloader):	Zinc alloy
Body material (Unloader/Flow Regulator):	Thermo plastic
Connection thread:	Brass
Adjustment mode (Unloader/Flow Regulator):	Rotating barrel
Adjustment locking (Unloader/Flow Regulator):	Knurled lock nut

Unloader with Push-in Connection

Symbol	Connection for pilot port	Thread	Connection for tube ,Ømm	Qmax input at 6 bar, l/min*	Weight kg	Order code
	Push-in Ø4mm	G1/8 G1/4 G3/8 G1/2	6 8 10 12	1450 2800 3950 4750	0,13 0,15 0,18 0,50	PWE-A1468 PWE-A1489 PWE-A1493 PWE-A1412

Unloader with Threaded Connection

Symbol	Connection for pilot port	Thread	Connection for tube ,Ømm	Qmax input at 6 bar, l/min*	Weight kg	Order code
	Push-in Ø4mm	G1/8 G1/4 G3/8 G1/2	G1/4 G1/4 G3/8 G1/2	1450 2800 3950 4750	0,13 0,16 0,19 0,48	PWE-A1898 PWE-A1899 PWE-A1833 PWE-A1822

Combined Unloader/Flow Control with Push-in Connection

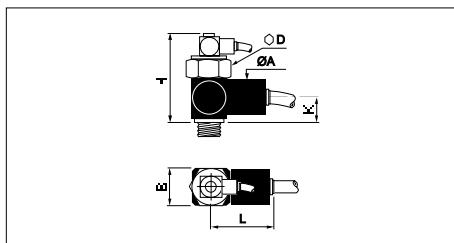
Symbol	Connection for pilot port	Thread	Connection for tube ,Ømm	Qmax input at 6 bar, l/min*	Weight kg	Order code
	Push-in Ø4mm	G1/8 G1/8 G1/4 G1/4 G3/8 G3/8	4 6 6 8 8 10	1450 1450 2800 2800 3950 3950	0,10 0,10 0,10 0,10 0,18 0,18	PWR-HE1448 PWR-HE1468 PWR-HE1469 PWR-HE1489 PWR-HE1483 PWR-HE1493

Unloader and Unloader/Flow Regulator PWE/PWR-HE

Unloaders	Pilot			Depilot		
	operating pressure			operating pressure		
PWE-A1468/1898	3bar 1,75	6bar 3,35	8bar 4,5	3bar 0,95	6bar 2,05	8bar 2,75
PWE-A1489/1899	2,35	4,3	5,9	0,95	2,05	2,75
PWE-A1493/1833	2,0	4,1	4,8	0,90	2,0	3,0
PWE-A1412/1822	1,4	3,35	5,0	0,90	2,2	3,5

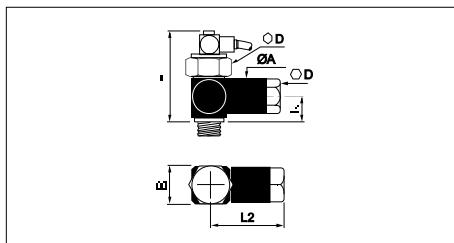
Combined speed controllers & unloaders	Pilot			Depilot		
	operating pressure			operating pressure		
PWR-HE1448	3bar 1,75	6bar 3,35	8bar 4,5	3bar 0,95	6bar 2,05	8bar 2,75
PWR-HE1468	1,75	3,35	4,5	0,95	2,05	2,75
PWR-HE1469	2,35	4,3	5,9	0,95	2,05	2,75
PWR-HE1489	2,35	4,3	5,9	0,95	2,05	2,75
PWR-HE1483	2,0	4,1	4,8	0,90	2,0	3,0
PWR-HE1493	2,0	4,1	4,8	0,90	2,0	3,0

Unloaders - Dimensions



Push-in Connection

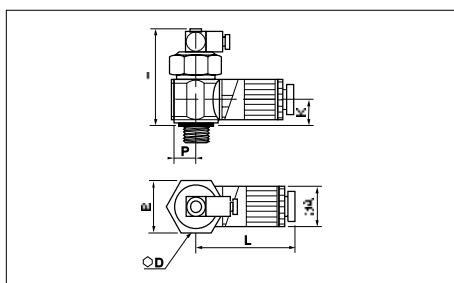
Order code	ØA	B	D	H	K	L
PWE-A1468	22	21	24	54	13	39
PWE-A1489	22	21	24	54	13	39
PWE-A1493	27	28	24	62	16	50
PWE-A1412	31	33	30	73	24	66



Threaded Connection

Order code	ØA	B	D	H	K	L2
PWE-A1898	22	21	24	54	13	43
PWE-A1899	22	21	24	54	13	43
PWE-A1833	27	28	24	62	16	55
PWE-A1822	31	33	30	73	24	63

Unloaders/Flow Regulators - Dimensions



Order code	ØA	B	D	H	K	L	P
PWR-HE1448	22,5	21	24	59	19,5	47,0	12,5
PWR-HE1468	22,5	21	24	59	19,5	47,0	12,5
PWR-HE1469	22,5	21	24	53	13,5	47,0	12,5
PWR-HE1489	22,5	21	24	53	13,5	47,5	12,5
PWR-HE1483	29,0	28	24	53	15,5	60,0	15,0
PWR-HE1493	29,0	28	24	53	15,5	60,0	15,0