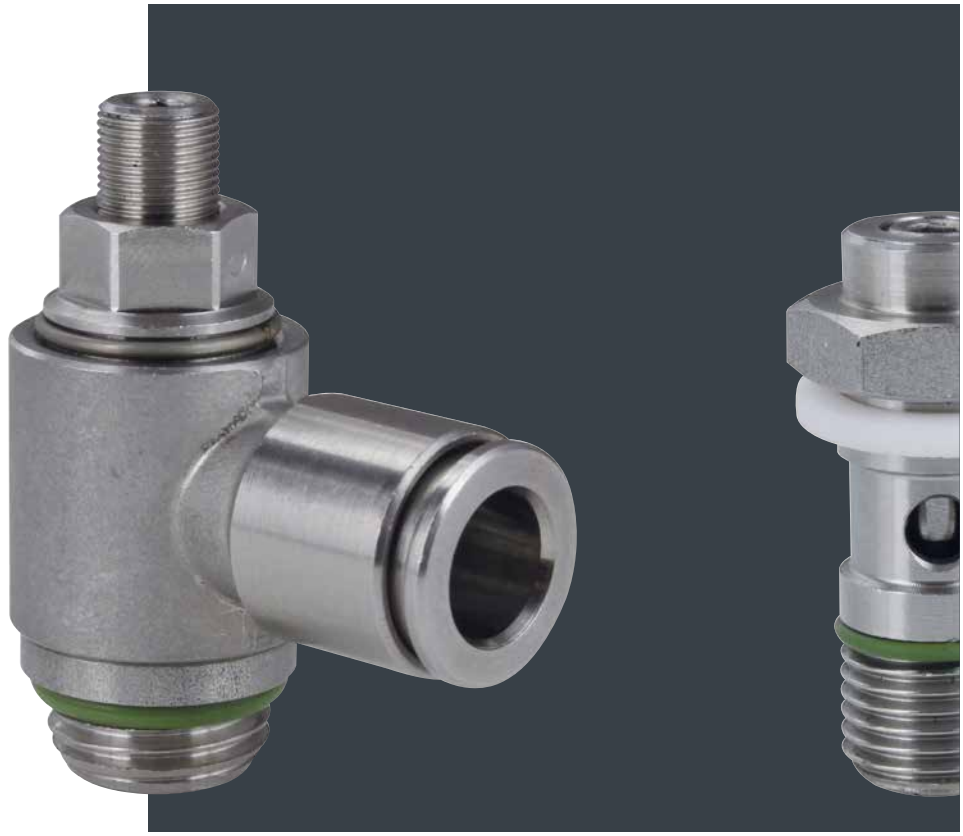
STAINLESS STEEL
flow and exhaust regulators



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Stainless Steel flow and exhaust regulators

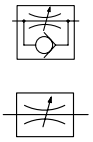
Main features and certifications

Stainless Steel flow and exhaust regulators. Available in different functions, versions and threads.
Supplied conforming to Reach and RoHS directives. Lubricated with synthetic grease long lasting, fully composed by non-toxic elements conforming to FDA Directive section 21 CFR 178 about accidental contact with food (registered NSF H1).

Stainless Steel in-line flow regulators

from page 5.371.1

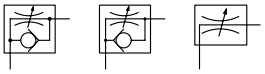
Series of stainless steel in-line flow regulators, available with uni-directional or bi-directional regulation.



Stainless Steel flow regulators

from page 5.372.1

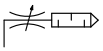
Series of stainless steel flow regulators,generally directly mounted on cylinder connections to control translation speed . Available in different functions: uni-directional with "out" adjustment, uni-directional with "in" adjustment and bi-directional with adjustment in both the directions. Use of two uni-directional "out" adjustment regulators is reccomended for the accurate control of the cylinder speed, as they act on the outgoing flow of the cylinder chambers, and don't interfere with the incoming flow to the chambers.



Stainless Steel silenced restrictors

from page 5.375.1

Series of stainless steel silenced exhaust restrictors, generally used to decrease the speed and thus the translation speed of the cylinders, are usually mounted on power valve outlets or quick exhaust valves. The main feature of these regulators is to include two functions in one component: flow regulation and silencing.



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Stainless Steel flow and exhaust regulators

Stainless Steel in-line flow regulators

Code key

Series	Type	Thread 1	Thread 2
VX	**52**	**18**	**18**
VX	52	18 = 1/8"	18 = 1/8"
	53	14 = 1/4"	14 = 1/4"
		38 = 3/8"	38 = 3/8"
		12 = 1/2"	12 = 1/2"

How to order

Series	Type	Thread	Thread
VX	**52**	**18**	**18**

Notes

For standard materials see the table below.

For specific type see the following pages.

Technical data

Type	VX52	VX53
Fluid	Filtered compressed air with or without lubrication	
Pressure range	0,5 ÷ 10 bar	
Temperature range	-20°C ÷ +150°C	
Parallel threads	UNI - ISO 228 / 1 (BSP)	

Standard materials

Type	VX52	VX53
Body	Stainless Steel AISI 316 L	
Adjustment needle	Stainless Steel AISI 316 L	
Regulator	Stainless Steel AISI 316 L	
Knob	Stainless Steel AISI 316 L	
Nut	Stainless Steel AISI 316 L	
Seals	FKM	

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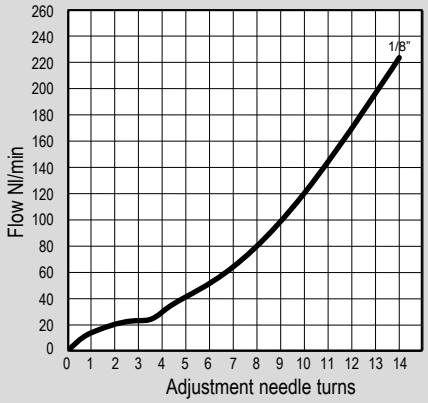
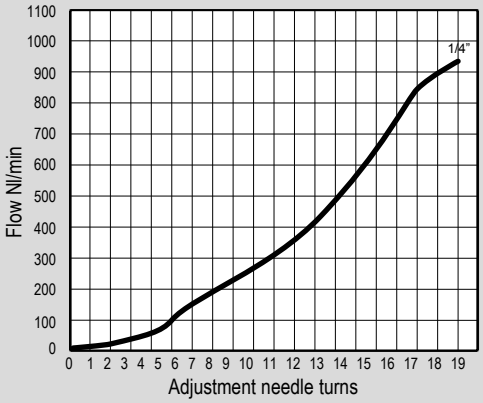
Stainless Steel flow and exhaust regulators

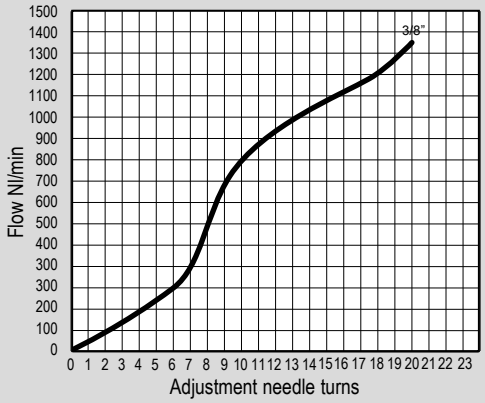
Stainless Steel in-line flow regulators

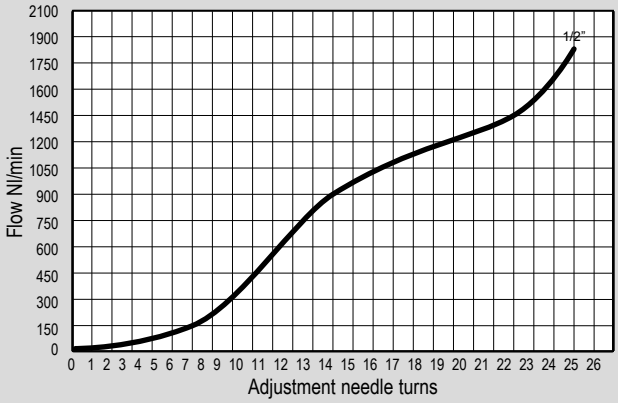
Flow diagram — P = 6 bar, with ΔP 1 bar

Type: **VX52 - VX53**









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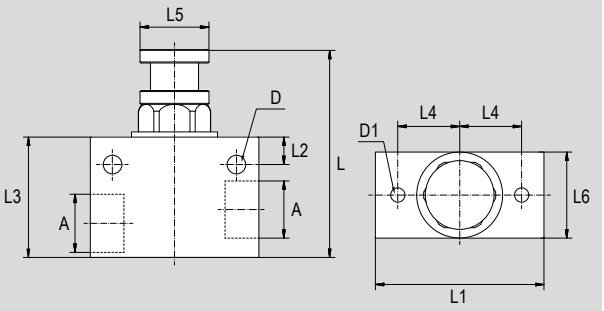
Stainless Steel flow and exhaust regulators

Stainless Steel in-line flow regulators

Main features

Type	Description	Function
VX52	Stainless Steel in-line uni-directional flow regulators. With female-female threads.	
VX53	Stainless Steel in-line bi-directional flow regulators. With female-female threads.	



Dimensions

Code	Item	Symbol (Function)	A	L min	L max	L1	L2	L3	L4	L5	L6	ØD	D1	Weight (g)
030155	VX521818	 (uni-directional)	G1/8"	49	54	40	8	30	15	20	20	5,4	M5	178
030156	VX521414		G1/4"	49	54	40	8	30	15	20	20	5,4	M5	168
030146	VX523838		G3/8"	57	66	49	8	35	18	20	25	5,4	M5	310
030147	VX521212		G1/2"	57	66	49	8	35	18	20	25	5,4	M5	305
030157	VX531818	 (bi-directional)	G1/8"	49	54	40	8	30	15	20	20	5,4	M5	178
030158	VX531414		G1/4"	49	54	40	8	30	15	20	20	5,4	M5	168
030144	VX533838		G3/8"	57	66	49	8	35	18	20	25	5,4	M5	310
030148	VX531212		G1/2"	57	66	49	8	35	18	20	25	5,4	M5	305

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Stainless Steel flow and exhaust regulators

Stainless Steel flow regulators

Code key

Series	Type (1)	Tube (1)	Thread (1)	Function (2)
VX	**18**	**06**	**18**	**C**
VX	15, 18	04 = Ø 4 06 = Ø 6 08 = Ø 8 10 = Ø 10	18 = 1/8" 14 = 1/4" 38 = 3/8"	C = "Out" adjustment (For cylinders) V = "In" adjustment (For valves) B = Bi-directional adjustment

How to order

Series	Type	Tube	Thread	Function
VX	**18**	**06**	**18**	**C**

Notes

The options in the same grid are alternative to each others. For standard materials see the table below.

(1) For matching between flow regulator types, tube diameters and threads, see the table on page 5.372.3; for specific type see the following pages.

(2) For the function differences see table at page 5.372.2

Technical data

Type	VX15	VX18
Fluid	Filtered compressed air with or without lubrication	
Pressure range	0 ÷ 10 bar	
Temperature range	-20°C ÷ +150°C	
Flow	See page 5.372.2	
Parallel threads	UNI - ISO 228 / 1 (BSP)	
Tubes	PVDF, PTFE	
Tubes tolerance	± 0,07 mm	

Standard materials

Type	VX15	VX18
Body	Stainless Steel AISI 316L	
Adjustment needle	Stainless Steel AISI 316L	
Bush	Stainless Steel AISI 316L	
Fitting	-	series RX (see page 5.302.10)
Washer	PTFE	-
Seals	FKM	

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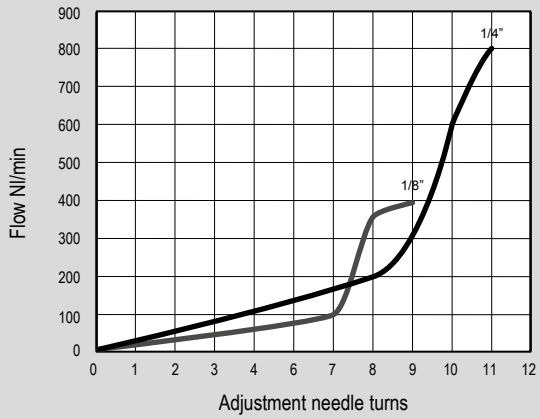
Stainless Steel flow and exhaust regulators

Stainless Steel flow regulators

Flow diagram

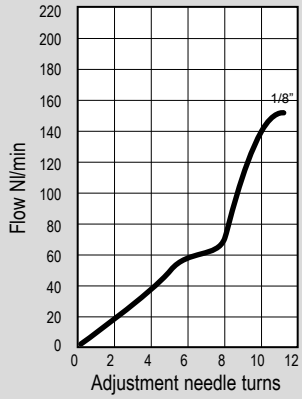
P = 6 bar, with ΔP 1 bar

Type: **VX15**

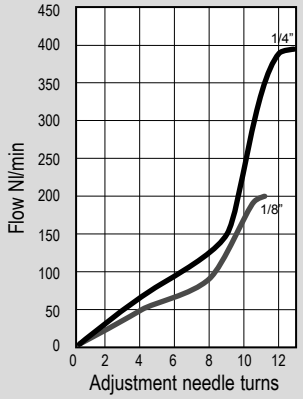


Type: **VX18**

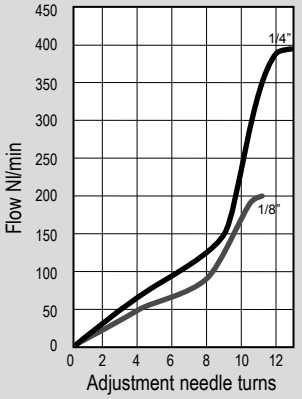
Tube: Ø **4x2,5**



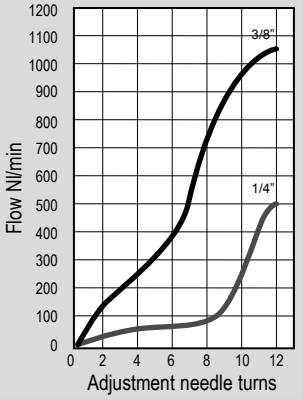
Tube: Ø **6x4**



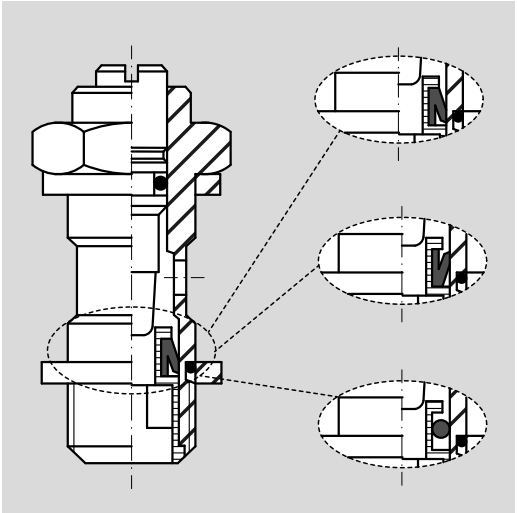
Tube: Ø **8x6**



Tube: Ø **10x8**



Functions



C		For cylinders. Function uni-directional with "out" adjustment
V		For valves. Function uni-directional with "in" adjustment
B		Bi-directional. Function bi-directional with adjustment in both directions

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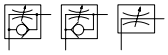
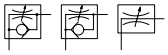
Stainless Steel flow and exhaust regulators

Stainless Steel flow regulators

Flow regulators

Type			Functions	Parallel threads (BSP)	For tube Ø mm	Data sheet and code page
VX15	Banjo bolt with screwdriver adjustment			1/8", 1/4"	-	5.372.4
VX18	Swivel BSP with screwdriver adjustment and push-in fitting			1/8", 1/4", 3/8"	4, 6, 8, 10	5.372.5

Matching thread/tube

Tube diameter (external)	Thread		
	G1/8"	G1/4"	G3/8"
Ø 4 mm	●	-	-
Ø 6 mm	●	●	-
Ø 8 mm	●	●	-
Ø 10 mm	-	●	●

Key
● allowed matching; - not allowed matching

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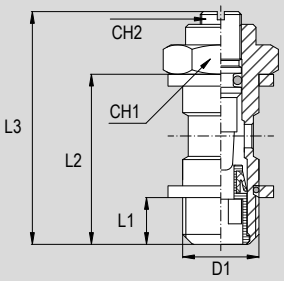
Stainless Steel flow and exhaust regulators

Stainless Steel flow regulators type VX15

Main features

Type	Description	Function
VX15..C	Banjo bolt with screwdriver adjustment. For cylinders. In Stainless Steel.	
VX15..V	Banjo bolt with screwdriver adjustment. For valves. In Stainless Steel.	
VX15..B	Banjo bolt with screwdriver adjustment. Bi-directional. In Stainless Steel.	



Dimensions

Code	Item	Symbol (Function)	D1	L1	L2	L3 (max)	CH1	CH2	Weight (g)
024035	VX150018C	(for cylinders)	G1/8"	5,1	22,1	32,9	14	2,5	18,3
024036	VX150014C		G1/4"	6,4	27,4	41,8	17	3	34,5
024039	VX150018V	(for valves)	G1/8"	5,1	22,1	32,9	14	2,5	18,3
024040	VX150014V		G1/4"	6,4	27,4	41,8	17	3	34,5
024037	VX150018B	(bi-directional)	G1/8"	5,1	22,1	32,9	14	2,5	18,3
024038	VX150014B		G1/4"	6,4	27,4	41,8	17	3	34,5

Matching with banjo series RX

Code	Item	For thread	Tube ext.Ø
020982	RX350418	1/8"	Øe 4
020981	RX350618	1/8"	Øe 6
020973	RX350614	1/4"	Øe 6
020965	RX350818	1/8"	Øe 8
020945	RX350814	1/4"	Øe 8
020990	RX351014	1/4"	Øe 10

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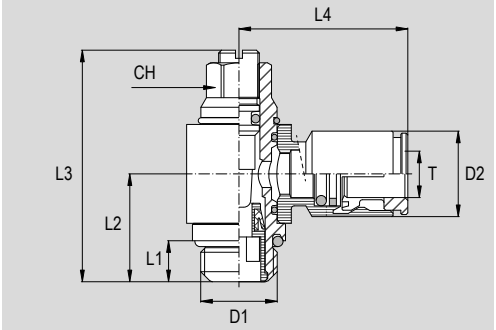
Stainless Steel flow and exhaust regulators

Stainless Steel flow regulators type VX18

Main features

Type	Description	Function
VX18..C	Swivel BSP with screwdriver adjustment and push-in fitting. For cylinders. In Stainless Steel.	
VX18..V	Swivel BSP with screwdriver adjustment and push-in fitting. For valves. In Stainless Steel.	
VX18..B	Swivel BSP with screwdriver adjustment and push-in fitting. Bi-directional. In Stainless Steel.	



Dimensions

Code	Item	Symbol (Function)	T (Øe tube)	D1	D2	L1	L2	L3 (max)	L4	CH	Weight (g)
024232	VX180418C	 (for cylinders)	4	G1/8"	9	5,1	15	32,9	20,5	9	26
024233	VX180618C		6	G1/8"	12	5,1	15	32,9	22,5	9	28,8
024234	VX180614C		6	G1/4"	12	6,4	17,4	39	24	10	43,1
024235	VX180818C		8	G1/8"	14	5,1	15	32,9	23	9	29,5
024236	VX180814C		8	G1/4"	14	6,4	17,4	39	25	10	45,4
024237	VX181014C		10	G1/4"	16	6,4	17,4	39	27	10	47
024238	VX181038C		10	G3/8"	16	7	20	50	26	14	85,2
024239	VX180418V	 (for valves)	4	G1/8"	9	5,1	15	32,9	20,5	9	26
024240	VX180618V		6	G1/8"	12	5,1	15	32,9	22,5	9	28,8
024241	VX180614V		6	G1/4"	12	6,4	17,4	39	24	10	43,1
024242	VX180818V		8	G1/8"	14	5,1	15	32,9	23	9	29,5
024243	VX180814V		8	G1/4"	14	6,4	17,4	39	25	10	45,4
024244	VX181014V		10	G1/4"	16	6,4	17,4	39	27	10	47
024245	VX181038V		10	G3/8"	16	7	20	50	26	14	85,2
024246	VX180418B	 (bi-directional)	4	G1/8"	9	5,1	15	32,9	20,5	9	26
024247	VX180618B		6	G1/8"	12	5,1	15	32,9	22,5	9	28,8
024248	VX180614B		6	G1/4"	12	6,4	17,4	39	24	10	43,1
024249	VX180818B		8	G1/8"	14	5,1	15	32,9	23	9	29,5
024250	VX180814B		8	G1/4"	14	6,4	17,4	39	25	10	45,4
024251	VX181014B		10	G1/4"	16	6,4	17,4	39	27	10	47
024252	VX181038B		10	G3/8"	16	7	20	50	26	14	85,2

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Stainless Steel flow and exhaust regulators

Stainless Steel silenced restrictors type AVRX

Code key

Type	Thread
AVRX	**14**

Type
AVRX

Thread
18 = 1/8"
14 = 1/4"
38 = 3/8"
12 = 1/2"
34 = 3/4"
01 = 1"

How to order

Type	Thread
AVRX	**14**

Notes

For standard materials see the table below.

Technical data

Type	AVRX
Fluid	Compressed air
Pressure range	0 ÷ 10 bar
Temperature range	-40°C ÷ +150°C
Parallel threads	UNI - ISO 228 / 1 (BSP)

Standard materials

Type	AVRX
Body	Stainless Steel AISI 316
Filtering cartridge	Stainless Steel AISI 316

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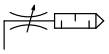
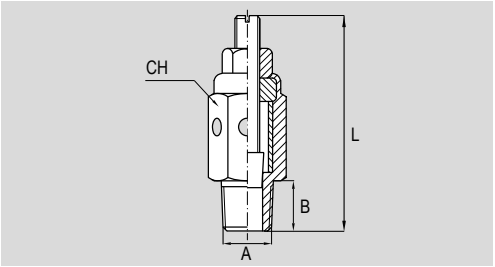
Stainless Steel flow and exhaust regulators

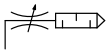
Stainless Steel silenced restrictors type AVRX

Main features

Type	Description	Function
AVRX	Silenced exhaust restrictors with screwdriver adjustment. In Stainless Steel.	



Dimensions

Code	Item	Symbol (Function)	A	B	L min	L max	CH	Weight (g)
023518	AVRX18		G1/8"	6,5	31	38	13	-
023519	AVRX14		G1/4"	9	37	48	14	-
023520	AVRX38		G3/8"	10,5	38	51	17	-
023527	AVRX12		G1/2"	10,5	43	54	22	-
023528	AVRX34		G3/4"	12	48	60	27	-
023529	AVRX01		G1"	15,5	53	69	34	-

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