

Control valves screw-in and plug-in

- M5 ... G 1/2"
- Hose diameter 4 ... 12 mm
- Nickel-plated brass, aluminium, plastic

- restrictor valves
- on-way flow restrictors
- on-way flow restrictors (exhaust air)
- on-way flow restrictors (additional air)
- non-return valves

Technical data

Body material Medium Medium temperature Nominal pressure	Brass, nickel plated brass Air max. +70 °C 10 bar ¹⁾
Body material Medium Medium temperature Nominal pressure	Aluminium Air max. +70 °C 10 bar ¹⁾
Body material Medium Medium temperature Nominal pressure	Plastic Air max. +50 °C 10 bar ¹⁾

¹⁾ Pressure data [in bar]; over-pressure with regard to atmospheric pressure

Other versions on request

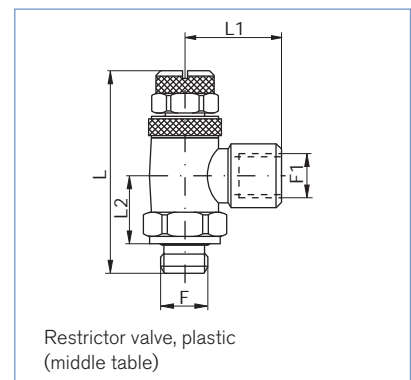
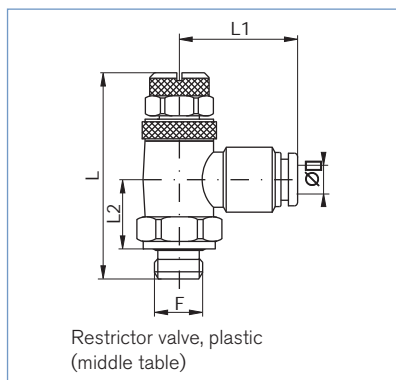
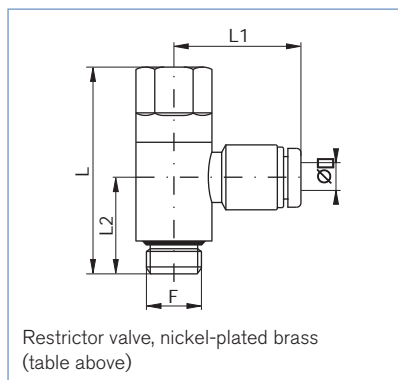
Ordering charts

Restrictor valves, bi-directional

	Material	Medium	F	Diameter [mm]	L [mm]	L 1 [mm]	L 2 [mm]	Packaging unit [piece]	Item no.
	Nickel-plated brass	Air	M5	4	28	24	10.5	1	780 217
			G 1/8	4	37	25	18.5	1	780 218
			G 1/8	6	37	26	18.5	1	780 219
			G 1/4	6	50	28	24	1	780 220
			G 1/8	8	37	31	18.5	1	780 221
			G 1/4	8	50	31	24	1	780 222
			G 1/4	10	50	36	24	1	780 223

	Material	Medium	F	Diameter [mm]	L [mm]	L 1 [mm]	L 2 [mm]	Packaging unit [piece]	Item no.
	Plastic	Air	M5	4	28.2	20	13.3	1	783 394
			M5	6	28.2	22	13.3	1	783 396
			G 1/8	4	42	22.5	20.7	1	783 395
			G 1/8	6	42	22.5	20.7	1	783 398
			G 1/4	6	48	24	25	1	783 397
			G 1/8	8	42	25.5	20.7	1	783 400
			G 1/4	8	48	27	25	1	783 399
			G 1/4	10	48	31	25	1	783 401
			G 3/8	10	53	31	29	1	783 402
			G 1/4	12	48	32	25	1	783 403
			G 3/8	12	53	33	29	1	783 404
			G 1/2	12	60.5	35	33	1	783 405

	Material	Medium	F	Diameter [mm]	L [mm]	L 1 [mm]	L 2 [mm]	Packaging unit [piece]	Item no.
	Nickel-plated brass	Air	G 1/8	G 1/8	42	21.4	19.7	1	783 412
			G 1/4	G 1/4	48	25.5	24	1	783 413
			G 3/8	G 3/8	53	31.5	28	1	783 414



Ordering chart, Restrictor valves, plug-in, block design, one-way flow

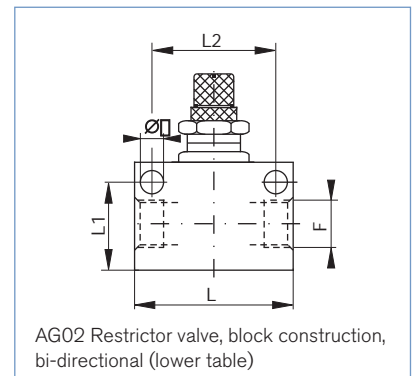
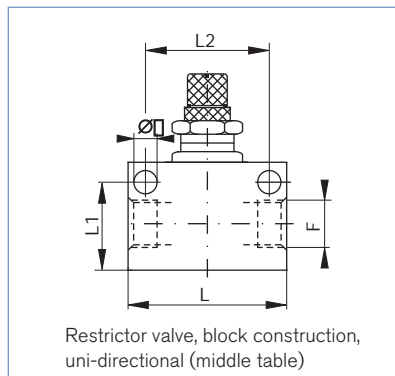
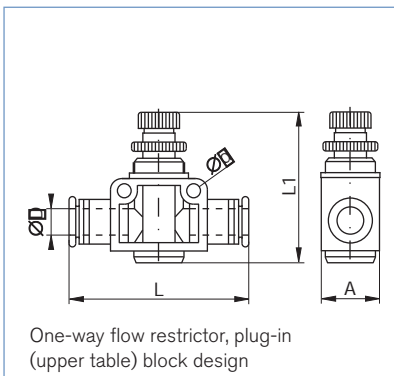
Material	Medium	Diameter D [mm]	Diameter d [mm]	L [mm]	L1 [mm]	A [mm]	Packaging unit [piece]	Item no.
Plastic	Air	4	3.2	38.4	26.5	11	1	783 415
		6	4.3	47.2	38	15	1	783 416
		8	4.3	51.8	40.5	18	1	783 417
		10	4.3	59.6	46	21	1	783 418
		12	4.3	71.4	49.5	28	1	783 419

Ordering chart, Restrictor valves, block design, uni-directional

Material	Medium	F	Diameter [mm]	L [mm]	L1 [mm]	L2 [mm]	Packaging unit [piece]	Item no.
Aluminium	Air	M5	4.2	21	12.5	15	1	783 360
		G 1/8	4.2	31	18.2	25	1	783 361
		G 1/4	6.5	45	24.5	35	1	783 362
		G 3/8	6.5	50	25.5	35	1	783 363
		G 1/2	6.5	59	35	44	1	783 364

Ordering chart, Restrictor valves, block design, bi-directional

Material	Medium	F	Diameter [mm]	L [mm]	L1 [mm]	L2 [mm]	Packaging unit [piece]	Item no.
Aluminium	Air	M5	4.2	21	12.5	15	1	783 365
		G 1/8	4.2	31	18.2	25	1	783 366
		G 1/4	6.5	45	24.5	35	1	783 367
		G 3/8	6.5	50	25.5	35	1	783 368
		G 1/2	6.5	59	35	44	1	783 369

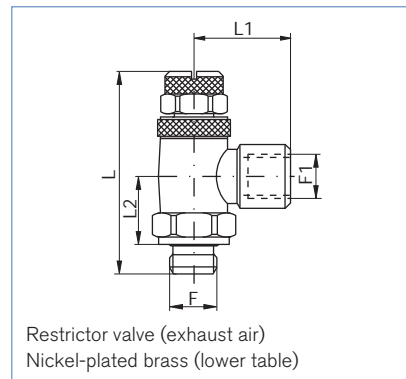
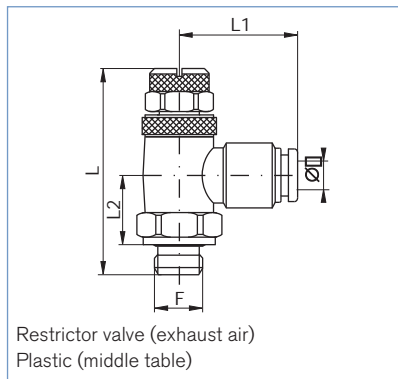
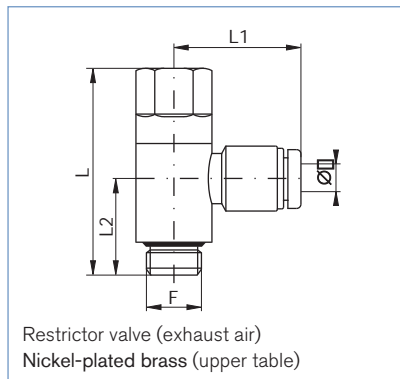


Ordering chart, restrictor valves (exhaust air)

Material	Medium	F	Diameter [mm]	L [mm]	L1 [mm]	L2 [mm]	Packaging unit [piece]	Item no.
Nickel-plated brass	Air	M5	4	28	24	10.5	1	780 204
		G 1/8	4	37	25	18.5	1	780 205
		G 1/8	6	37	26	18.5	1	780 206
		G 1/4	6	50	28	24	1	780 207
		G 1/8	8	37	31	18.5	1	780 208
		G 1/4	8	50	31	24	1	780 209
		G 1/4	10	50	36	24	1	780 210

Material	Medium	F	Diameter [mm]	L [mm]	L1 [mm]	L2 [mm]	Packaging unit [piece]	item no.
Plastic	Air	M5	4	28.2	20	13.3	1	783 370
		M5	6	28.2	22	13.3	1	783 372
		G 1/8	4	42	22.5	20.7	1	783 371
		G 1/8	6	42	22.5	20.7	1	783 373
		G 1/4	6	48	24	25	1	783 374
		G 1/8	8	42	25.5	20.7	1	783 375
		G 1/4	8	48	27	25	1	783 376
		G 1/4	10	48	31	25	1	783 377
		G 3/8	10	53	31	29	1	783 378
		G 1/4	12	48	32	25	1	783 379
		G 3/8	12	53	33	29	1	783 380
		G 1/2	12	60.5	35	33	1	783 381

Material	Medium	F	F 1	L [mm]	L1 [mm]	L2 [mm]	Packaging unit [piece]	Item no.
Nickel-plated brass	Air	G 1/8	G 1/8	42	21.4	19.7	1	783 406
		G 1/4	G 1/4	48	25.5	24	1	783 407
		G 3/8	G 3/8	53	31.5	28	1	783 408

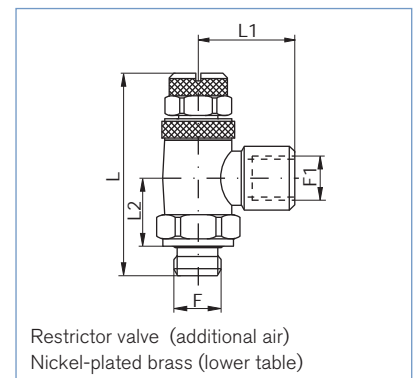
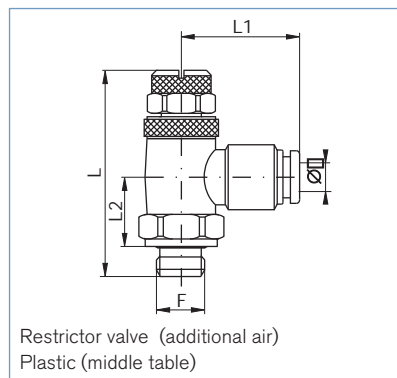
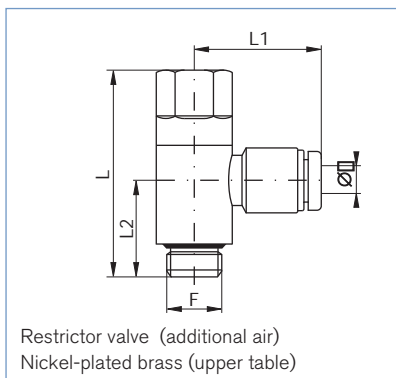


Ordering chart, restrictor valve (additional air)

Material	Medium	F	Diameter [mm]	L [mm]	L 1 [mm]	L 2 [mm]	Packaging unit [piece]	Item no.
Nickel-plated brass	Air	G 1/8	4	37	25	18.5	1	780 211
		G 1/8	6	37	26	18.5	1	780 212
		G 1/4	6	50	28	24	1	780 213
		G 1/8	8	37	31	18.5	1	780 214
		G 1/4	8	50	31	24	1	780 215
		G 1/4	10	50	36	24	1	780 216

Material	Medium	F	Diameter [mm]	L [mm]	L 1 [mm]	L 2 [mm]	Packaging unit [piece]	Item no.
Plastic	Air	M5	4	28.2	20	13.3	1	783 382
		M5	6	28.2	22	13.3	1	783 384
		G 1/8	4	42	22.5	20.7	1	783 383
		G 1/8	6	42	22.5	20.7	1	783 385
		G 1/4	6	48	24	25	1	783 386
		G 1/8	8	42	25.5	20.7	1	783 387
		G 1/4	8	48	27	25	1	783 388
		G 1/4	10	48	31	25	1	783 389
		G 3/8	10	53	31	29	1	783 390
		G 3/8	12	53	33	29	1	783 392
G 1/2	12	60.5	35	33	1	783 393		

Material	Medium	F	F 1	L [mm]	L 1 [mm]	L 2 [mm]	Packaging unit [piece]	Item no.
Nickel-plated brass	Air	G 1/8	G 1/8	42	21.4	19.7	1	783 409
		G 1/4	G 1/4	48	25.5	24	1	783 410
		G 3/8	G 3/8	53	31.5	28	1	783 411



Ordering chart

Check valves with external threads and plug-in connections, flow from F to D

Material	Medium	Pressure P max. [bar] ¹⁾	Medium temperature [°C]	F	Diameter D [mm]	L [mm]	SW [mm]	Packaging unit [piece]	Item no.
Nickel-plated brass	Air	0.9 ... 10	0 ... +60	M5	4	30	10	1	783 425
				G 1/8	4	24.7	10	1	783 426
				G 1/8	6	28.6	12	1	783 427
				G 1/8	8	30.5	14	1	783 428
				G 1/4	6	28.6	14	1	783 429
				G 1/4	8	35.1	14	1	783 430

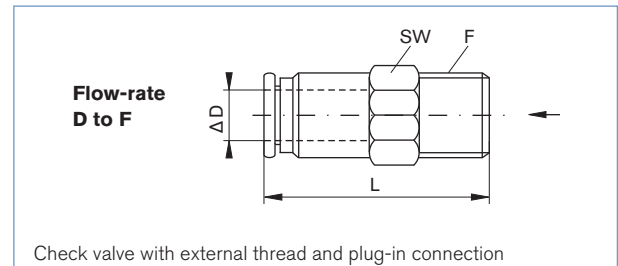
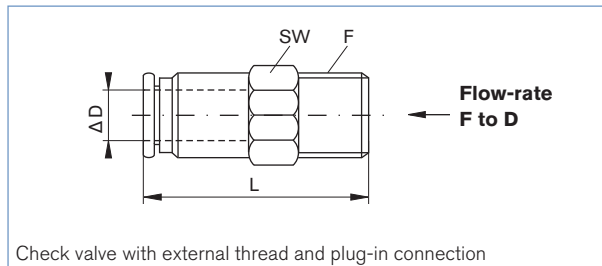
¹⁾ Pressure data [bar]: Overpressure with respect to atmospheric pressure

Ordering chart

Check valves with external threads and plug-in connections, flow from D to F

Material	Medium	Pressure P max. [bar] ¹⁾	Medium temperature [°C]	F	Diameter D [mm]	L [mm]	SW [mm]	Packaging unit [piece]	Item no.
Nickel-plated brass	Air	0.9 ... 10	0 ... +60	M5	4	30	10	1	783 434
				G 1/8	4	24.7	10	1	783 435
				G 1/8	6	28.6	12	1	783 436
				G 1/8	8	30.5	14	1	783 437
				G 1/4	6	28.6	14	1	783 438
				G 1/4	8	35.1	14	1	783 439

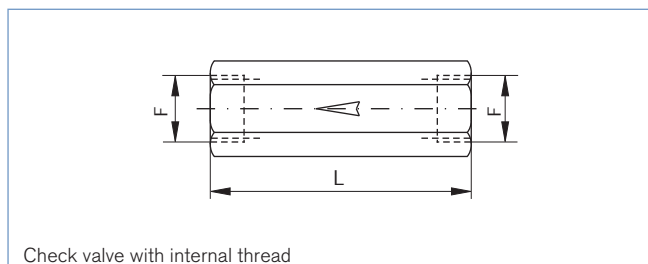
¹⁾ Pressure data [bar]: Overpressure with respect to atmospheric pressure



Ordering chart, check valve with internal thread

Material	Medium	Pressure P max. [bar] ¹⁾	Medium temperature [°C]	Opening pressure	F	L [mm]	Packaging unit [piece]	Item no.
Nickel-plated brass	Air	10	max. +70	0.05	G 1/8	34	1	783 455
					G 1/4	39	1	783 456

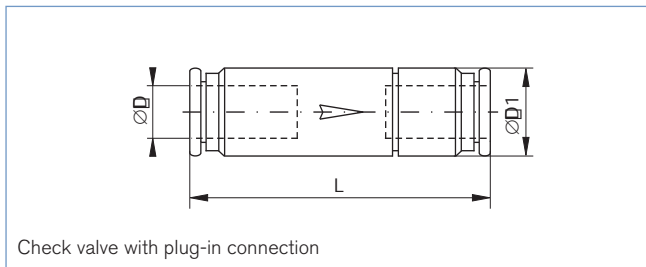
¹⁾ Pressure data [bar]: Overpressure with respect to atmospheric pressure



Ordering chart, check valve with plug-in connection

Material	Medium	Pressure P max. [bar] ¹⁾	Medium temperature [°C]	Diameter D [mm]	Diameter D1 [mm]	L [mm]	Packaging unit [piece]	Item no.
Plastic	Air	0.9 ... 10	+50	4	10	41.1	1	783 420
				6	12.4	47.2	1	783 421
				8	14.4	51.6	1	783 422

¹⁾ Pressure data [bar]: Overpressure with respect to atmospheric pressure



Ordering chart, check valve

Material	Medium	Pressure	Opening pressure [bar] 1)	Medium temperature [°C]	Packaging unit [piece]
Nickel-plated brass	Air	PN 10	0.1	max. 70	1

¹⁾ Pressure data [bar]: Overpressure with respect to atmospheric pressure

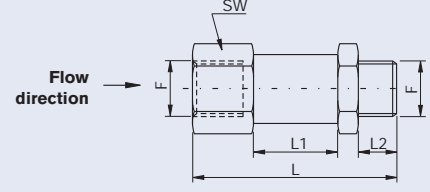
Flow direction →	F	L [mm]	L1 [mm]	L2 [mm]	SW [mm]	Item no.
	G 1/4	48.5	15.5	9.0	17	783 443
	G 3/8	54.0	15.0	11.5	19	783 444
	G 1/2	on request	on request	on request	24	783 445

Flow direction →	F	L [mm]	L1 [mm]	L2 [mm]	SW [mm]	Item no.
	G 1/4	48.5	20.5	8	17	783 446
	G 3/8	54.0	23.0	10	19	783 447
	G 1/2	64.0	30.0	12	24	783 448

Flow direction →	F	L [mm]	L1 [mm]	L2 [mm]	SW [mm]	Item no.
	G 1/4	48.5	20.5	9	17	783 449
	G 3/8	54.0	23.0	11	19	783 450
	G 1/2	on request	on request	on request	on request	783 451

Ordering chart, check valve

Material	Medium	Pressure	Opening pressure [bar] 1)	Medium temperature [°C]	Packaging unit [Stück]
Brass	Air	PN 10	0.1	max. +70	1

	F	L [mm]	L 1 [mm]	L 2 [mm]	SW [mm]	Item no.
	G 1/4	48.5	20.5	9	17	783 452
G 3/8	on request	on request	on request	19	783 453	
G 1/2	65.5	30.0	14	24	783 454	

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