

# Flow Control Regulators



Available with technical polymer, nickel-plated brass or aluminium bodies, with external or recessed adjustment screws, Flow Control Regulators offer precise adjustment, accuracy and compactness.

Ø metric:  
3 to 14 mm

## Technical Characteristics

- **Compatible Fluids:** Compressed air  
Other fluids: contact us
- **Working Pressure:** 1 to 10 bar
- **Working Temperature:** 0°C to +70°C  
-25°C to +70°C (metal version)

Max. Tightening Torques (external adjustment screw)	Threads	M3 x0.5	M5 x0.8	G1/8	G1/4	G3/8	G1/2
	daN.m		0.06	0.16	0.8	1.2	3

Max. Tightening Torques (recessed adjustment screw)	Threads	-	M5 x0.8	G1/8	G1/4	G3/8	G1/2
	daN.m		-	0.1	0.4	0.5	0.6

Reliable performance is dependent upon the type of fluid conveyed and component materials being used.

Use is guaranteed with a vacuum of 755 mm Hg (99% vacuum).

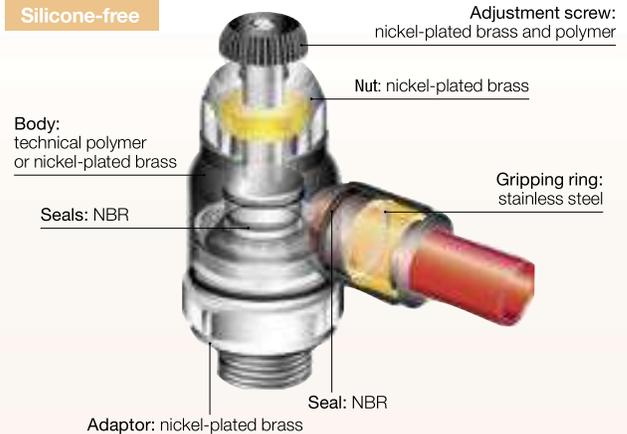
You will find all the flow rate characteristic curves (to 6 bar) for Flow Control Regulators at the end of the chapter.

## Regulations

- RoHS
- REACH
- PED

## Component Materials

Silicone-free



## Advantages

### Productivity:

- Higher maximum flow than standard regulators
- Optimal control of the cylinder rod speed

### Accuracy:

- Precise adjustment for accurate flow regulation
- Long-term stability of flow

### Ergonomics:

- External adjustment screw: easy to adjust ; Recessed adjustment screw: protects the adjustment mechanism
- Can be rotated 360° during assembly

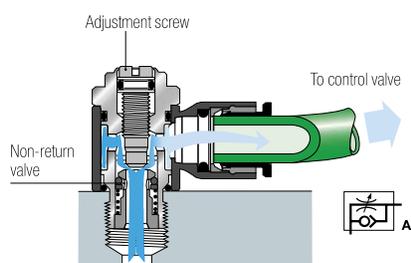
## Operation

The uni-directional models control the flow of air in one direction through an adjustable restrictor, while allowing full flow in the opposite direction. The bi-directional models control the flow of air in both directions.

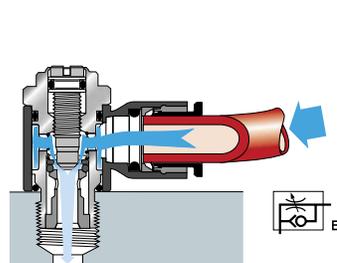
A more precise and constant flow regulation is obtained when the regulator is fitted directly onto the cylinder.

### Models with Recessed Adjustment

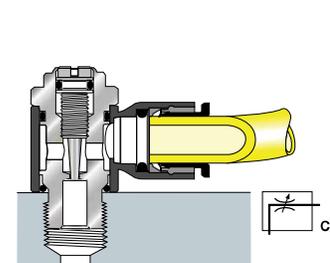
#### Uni-Directional (Exhaust Version)



#### Uni-Directional (Supply Version)

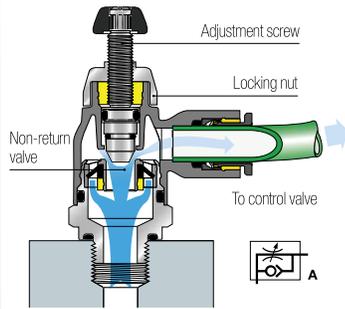


#### Bi-Directional Version

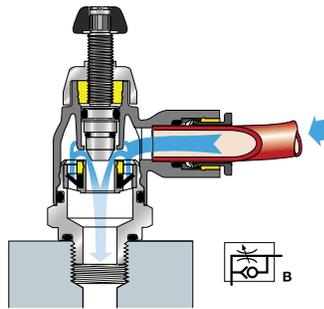


## Models with External Adjustment

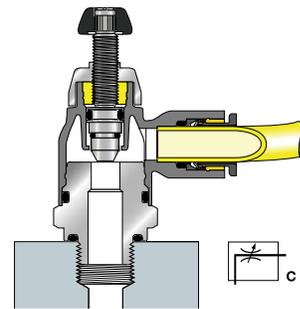
### Uni-Directional (Exhaust Version)



### Uni-Directional (Supply Version)

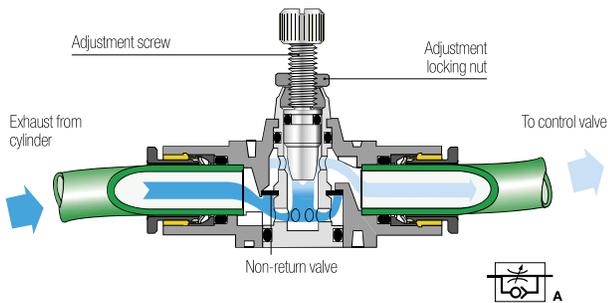


### Bi-Directional Version

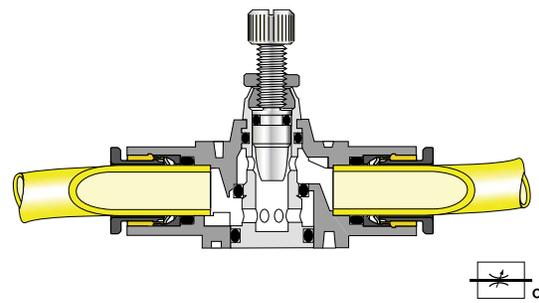


## In-Line Models

### Uni-Directional Version



### Bi-Directional Version

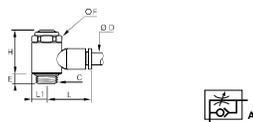


For instant visual identification, each Parker Legris flow control regulator version is identified by the related pneumatic symbol and by a letter:

- uni-directional regulation on exhaust: letter A
- uni-directional regulation on supply: letter B
- bi-directional regulation: letter C

## 7010 Flow Regulator Male BSPP and Metric Thread

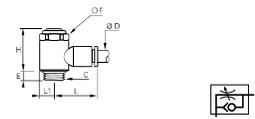
Technical polymer, Nickel-plated brass, NBR



ØD	C		E	F	H	L	L1	Kg
4	M5x0.8	<b>7010 04 19</b>	4	8	17.5	17	5	0.006
	G1/8	<b>7010 04 10</b>	5	13	25	19	7	0.017
6	M5x0.8	<b>7010 06 19</b>	4	8	17.5	19	5	0.006
	G1/8	<b>7010 06 10</b>	5	13	25	21	7	0.018
	G1/4	<b>7010 06 13</b>	8	17	26.5	22	9.5	0.034
8	G1/8	<b>7010 08 10</b>	5	13	25	26	7	0.019
	G1/4	<b>7010 08 13</b>	8	17	26.5	27	9.5	0.035
	G3/8	<b>7010 08 17</b>	7.5	20	37.5	29	11	0.068
	G1/4	<b>7010 10 13</b>	8	17	26.5	29	9.5	0.035
10	G3/8	<b>7010 10 17</b>	7.5	20	37.5	31	11	0.067
	G1/2	<b>7010 10 21</b>	8	23	43	37	13.5	0.117
12	G3/8	<b>7010 12 17</b>	7.5	20	37.5	34.5	11	0.069
	G1/2	<b>7010 12 21</b>	8	23	43	37	13.5	0.108

## 7011 Flow Regulator Male BSPP and Metric Thread

Technical polymer, Nickel-plated brass, NBR

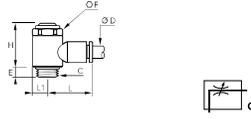


ØD	C		E	F	H	L	L1	Kg
4	M5x0.8	<b>7011 04 19</b>	4	8	17.5	17	5	0.006
	G1/8	<b>7011 04 10</b>	5	13	25	19	7	0.017
6	M5x0.8	<b>7011 06 19</b>	4	8	17.5	19	5	0.006
	G1/8	<b>7011 06 10</b>	5	13	25	21	7	0.018
	G1/4	<b>7011 06 13</b>	8	17	26.5	22	9.5	0.034
8	G1/8	<b>7011 08 10</b>	5	13	25	26	7	0.019
	G1/4	<b>7011 08 13</b>	8	17	26.5	27	9.5	0.034
	G3/8	<b>7011 08 17</b>	7.5	20	37.5	29	11	0.067
	G1/4	<b>7011 10 13</b>	8	17	26.5	29	9.5	0.036
10	G3/8	<b>7011 10 17</b>	7.5	20	37.5	31	11	0.068

# Polymer Flow Control Regulators / With Recessed Adjustment

## 7012 Bi-Directional Flow Regulator Male BSPP and Metric Thread

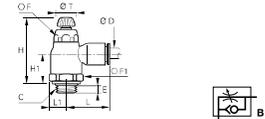
Technical polymer, Nickel-plated brass, NBR



ØD	C		E	F	H	L	L1	Kg
4	M5x0.8	<b>7012 04 19</b>	4	8	17.5	17	5	0.006
	G1/8	<b>7012 04 10</b>	5	13	25	19	7	0.018
6	M5x0.8	<b>7012 06 19</b>	4	8	17.5	19	5	0.006
	G1/8	<b>7012 06 10</b>	5	13	25	21	7	0.019
8	G1/4	<b>7012 06 13</b>	8	17	26.5	22	9.5	0.035
	G1/8	<b>7012 08 10</b>	5	13	25	26	7	0.019
8	G1/4	<b>7012 08 13</b>	8	17	26.5	27	9.5	0.036
	G3/8	<b>7012 08 17</b>	7.5	20	37.5	29	11	0.071

## 7061 Compact Flow Regulator Supply, Male BSPP Thread

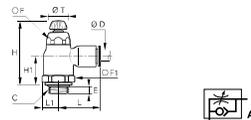
Technical polymer, Nickel-plated brass, NBR



ØD	C		E	F	F1	H	H max	H1	L	L1	ØT	Kg
4	G1/8	<b>7061 04 10</b>	5	10	16	38	44	16	22	9	10	0.020
	G1/8	<b>7061 06 10</b>	5	10	16	38	44	16	22	9	10	0.020
6	G1/4	<b>7061 06 13</b>	5.5	10	16	36.5	42.5	15	22	9	10	0.021
	G1/8	<b>7061 08 10</b>	4.5	14	19	41.5	48	18	28	10.5	14	0.033
8	G1/4	<b>7061 08 13</b>	5.5	14	19	41.5	48	18.5	28	10.5	14	0.034
	G3/8	<b>7061 08 17</b>	5.5	14	23	41.5	48	17	28	11	14	0.033
10	G1/4	<b>7061 10 13</b>	5.5	17	23	45.5	53.5	20	31.5	12.5	17	0.053
	G3/8	<b>7061 10 17</b>	5.5	17	23	45.5	54	20	31.5	12.5	17	0.054
12	G1/2	<b>7061 12 21</b>	7.5	17	24	45.5	54	20	35	13	17	0.060

## 7060 Compact Flow Regulator Exhaust, Male BSPP Thread

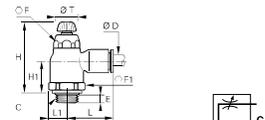
Technical polymer, Nickel-plated brass, NBR



ØD	C		E	F	F1	H	H max	H1	L	L1	ØT	Kg
4	G1/8	<b>7060 04 10</b>	5	10	16	38	44	16	22	9	10	0.020
	G1/8	<b>7060 06 10</b>	5	10	16	38	44	16	22	9	10	0.020
6	G1/4	<b>7060 06 13</b>	5.5	10	16	36.5	42.5	15	22	9	10	0.020
	G1/8	<b>7060 08 10</b>	4.5	14	19	41.5	48	18	28	10.5	14	0.032
8	G1/4	<b>7060 08 13</b>	5.5	14	19	41.5	48	18.5	28	10.5	14	0.034
	G3/8	<b>7060 08 17</b>	5.5	14	19	41.5	48	17	28	11	14	0.034
10	G1/4	<b>7060 10 13</b>	5.5	17	23	45.5	53.5	20	31.5	12.5	17	0.053
	G3/8	<b>7060 10 17</b>	5.5	17	23	45.5	54	20	31.5	12.5	17	0.054
12	G3/8	<b>7060 12 17</b>	5.5	17	23	45.5	54	20	35	12.5	17	0.056
	G1/2	<b>7060 12 21</b>	7.5	17	24	45.5	54	20	35	13	17	0.058

## 7062 Bi-Directional Compact Flow Regulator, Male BSPP Thread

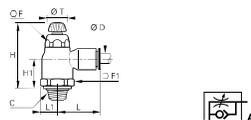
Technical polymer, Nickel-plated brass, NBR



ØD	C		E	F	F1	H	H max	H1	L	L1	ØT	Kg
4	G1/8	<b>7062 04 10</b>	5	10	16	38	44	16	22	9	10	0.025
	G1/8	<b>7062 06 10</b>	5	10	16	38	44	16	22	9	10	0.025
6	G1/4	<b>7062 06 13</b>	5.5	10	16	36.5	42.5	15	22	9	10	0.025
	G1/8	<b>7062 08 10</b>	4.5	14	19	41.5	48	18	28	10.5	14	0.043
8	G1/4	<b>7062 08 13</b>	5.5	14	19	41.5	48	18.5	28	10.5	14	0.046
	G3/8	<b>7062 08 17</b>	5.5	14	19	41.5	48	17	28	11	14	0.042

## 7065 Compact Flow Regulator Exhaust, Male BSPT Thread

Technical polymer, Nickel-plated brass, NBR

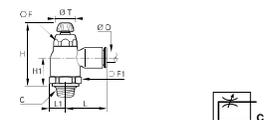


ØD	C		F	F1	H max	H min	H1	L	L1	ØT	Kg
6	R1/8	<b>7065 06 10</b>	10	16	42.5	36.5	15	22	8	10	0.021
	R1/8	<b>7065 08 10</b>	14	19	45	40	16.5	28	10.5	14	0.034
8	R1/4	<b>7065 08 13</b>	14	19	45	40	16.5	28	10.5	14	0.036
	R1/4	<b>7065 10 13</b>	17	23	51.5	43.5	18	31.5	12.5	17	0.053
10	R3/8	<b>7065 10 17</b>	17	23	51.5	43.5	18	31.5	12.5	17	0.055
	R1/2	<b>7065 10 21</b>	17	23	51.5	43.5	18	31.5	12.5	17	0.059
12	R1/4	<b>7065 12 13</b>	17	23	51.5	43.5	18	35	12.5	17	0.056
	R3/8	<b>7065 12 17</b>	17	23	51.5	43.5	18	35	12.5	17	0.059
	R1/2	<b>7065 12 21</b>	17	23	51.5	43.5	18	35	12.5	17	0.064

Pre-coated thread

## 7067 Bi-Directional Compact Flow Regulator, Male BSPT Thread

Technical polymer, Nickel-plated brass, NBR

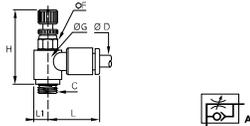


ØD	C		F	F1	H max	H min	H1	L	L1	ØT	Kg
4	R1/8	<b>7067 04 10</b>	10	16	42.5	36.5	14.7	22	9	10	0.025
	R1/8	<b>7067 06 10</b>	10	16	42.5	36.5	14.7	22	9	10	0.010
6	R1/4	<b>7067 06 13</b>	10	16	42.5	36.5	14.7	22	9	10	0.014
	R1/8	<b>7067 08 10</b>	14	19	45	40	16.5	28	10.5	14	0.034
8	R1/4	<b>7067 08 13</b>	14	19	45	40	16.5	28	10.5	14	0.036
	R3/8	<b>7067 08 17</b>	14	19	45	40	16.5	28	11	14	0.042

Pre-coated thread

## 7660 Miniature Flow Regulator Exhaust, Male BSPP and Metric Thread

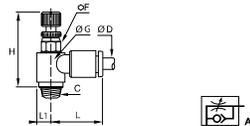
Technical polymer, Nickel-plated brass, NBR



ØD	C	F	G	H max	H min	L	L1	Kg
3	M3x0.5 <b>7660 03 09</b>	6	9	26	23.5	17	4.5	0.007
	M5x0.8 <b>7660 03 19</b>	6	9	26	23.5	17	4.5	0.006
4	M3x0.5 <b>7660 04 09</b>	6	9	26	23.5	16.5	4.5	0.007
	M5x0.8 <b>7660 04 19</b>	6	9	26	23.5	17	4.5	0.006
	G1/8 <b>7660 04 10</b>	7	11.5	29.5	27	18	6	0.012
6	M5x0.8 <b>7660 06 19</b>	6	9	26	23.5	18	4.5	0.006
	G1/8 <b>7660 06 10</b>	7	11.5	29.5	27	18.5	6	0.012
6	G1/4 <b>7660 06 13</b>	8	12	32.5	30	19	6	0.019
	G1/8 <b>7660 08 10</b>	13	14	31	26.5	26	7	0.021
8	G1/4 <b>7660 08 13</b>	16	19	34	29	27.5	9.5	0.033
	G3/8 <b>7660 08 17</b>	20	23	42	36	29	11.5	0.061

## 7665 Miniature Flow Regulator Exhaust, Male BSPT Thread

Technical polymer, Nickel-plated brass, NBR

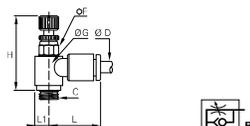


ØD	C	F	G	H max	H min	L	L1	Kg
4	R1/8 <b>7665 04 10</b>	7	11.5	27.5	25	18	6	0.012
	R1/8 <b>7665 06 10</b>	7	11.5	27.5	25	18.5	6	0.012
6	R1/4 <b>7665 06 13</b>	8	13.5	30	27.5	19	7	0.019
	R3/8 <b>7665 06 17</b>	17	13.5	34	31.5	19	7	0.025
	R1/8 <b>7665 08 10</b>	13	14	28.5	24	26	7	0.021
8	R1/4 <b>7665 08 13</b>	16	19	29	25	27.5	9.5	0.033
	R3/8 <b>7665 08 17</b>	20	23	36	30	29	11.5	0.061

Pre-coated thread

## 7669 Miniature Flow Regulator Supply, Male BSPP and Metric Thread

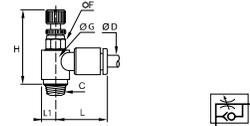
Technical polymer, Nickel-plated brass, NBR



ØD	C	F	G	H max	H min	L	L1	Kg
3	M3x0.5 <b>7669 03 09</b>	6	9	26.5	24	17	4.5	0.008
	M5x0.8 <b>7669 03 19</b>	6	9	27.5	25	17	4.5	0.007
4	M5x0.8 <b>7669 04 19</b>	6	9	27.5	25	17	4.5	0.006
	G1/8 <b>7669 04 10</b>	7	11.5	31	28	18	6	0.012
6	M5x0.8 <b>7669 06 19</b>	6	9	27	23.5	18	4.5	0.007
	G1/8 <b>7669 06 10</b>	7	11.5	31	28	18.5	6	0.012
6	G1/4 <b>7669 06 13</b>	8	12	34	30.5	19	6	0.019
	G1/8 <b>7669 08 10</b>	13	14	32	29	26	7	0.021
8	G1/4 <b>7669 08 13</b>	16	19	33.5	29.5	27.5	9.5	0.032
	G3/8 <b>7669 08 17</b>	20	23	41	37	29	11.5	0.063

## 7668 Miniature Flow Regulator Supply, Male BSPT Thread

Technical polymer, Nickel-plated brass, NBR

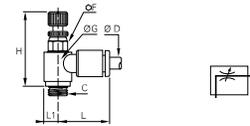


ØD	C	F	G	H max	H min	L	L1	Kg
4	R1/8 <b>7668 04 10</b>	7	11.5	28.5	25.5	18	6	0.011
	R1/8 <b>7668 06 10</b>	7	11.5	29	24	18.5	6	0.012
6	R1/4 <b>7668 06 13</b>	8	13.5	31	27	19	7	0.019
	R1/8 <b>7668 08 10</b>	13	14	28.5	25	26	7	0.020
8	R1/4 <b>7668 08 13</b>	16	19	30	26	27.5	9.5	0.032

Pre-coated thread

## 7662 Bi-Directional Miniature Flow Regulator, Male BSPP and Metric Thread

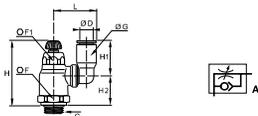
Technical polymer, Nickel-plated brass, NBR



ØD	C	F	G	H max	H min	L	L1	Kg
4	M5x0.8 <b>7662 04 19</b>	6	9	26	23.5	17	4.5	0.007
	G1/8 <b>7662 04 10</b>	7	11.5	29.5	27	18	6	0.013
6	M5x0.8 <b>7662 06 19</b>	6	9	26	23.5	18	4.5	0.010
	G1/8 <b>7662 06 10</b>	7	11.5	29.5	27	18.5	6	0.013
6	G1/4 <b>7662 06 13</b>	8	12	32.5	30	19	6	0.019

## 7040 Compact Flow Regulator Swivel Outlet Exhaust, Male BSPP Thread

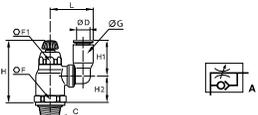
Technical polymer, Nickel-plated brass, NBR



ØD	C	F	F1	G	H max	H min	H1	H2	L	Kg	
6	G1/8	<b>7040 06 10</b>	16	10	10.5	44	38	16	18	23.5	0.024
	G1/4	<b>7040 06 13</b>	16	10	10.5	42.5	36.5	16	16.5	23.5	0.023
	G1/8	<b>7040 08 10</b>	19	14	13.5	48	41.5	23	19	28	0.037
8	G1/4	<b>7040 08 13</b>	19	14	13.5	48	41.5	23	19.5	28	0.039
	G3/8	<b>7040 08 17</b>	19	14	13.5	48	41.5	23	17.5	28	0.020
10	G1/4	<b>7040 10 13</b>	23	17	16	53.5	45.5	26.5	21	35	0.051
	G3/8	<b>7040 10 17</b>	23	17	16	54	45.5	26.5	21.5	35	0.063
12	G3/8	<b>7040 12 17</b>	23	17	19	54	45.5	30.5	21.5	38	0.066
	G1/2	<b>7040 12 21</b>	24	17	19	54	45.5	30.5	21	38	0.071

## 7045 Compact Flow Regulator Swivel Outlet Exhaust, Male BSPT Thread

Technical polymer, Nickel-plated brass, NBR

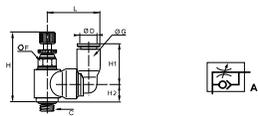


ØD	C	F	F1	G	H max	H min	H1	H2	L	Kg	
10	R3/8	<b>7045 10 17</b>	23	17	16	51.5	43.5	26.5	19	35	0.065
12	R3/8	<b>7045 12 17</b>	23	17	19	51.5	43.5	31	19	38	0.065

Pre-coated thread

## 7640 Miniature Swivel Outlet Flow Regulator Exhaust, Male BSPP and Metric Thread

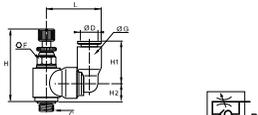
Technical polymer, Nickel-plated brass, NBR



ØD	C	F	G	H max	H min	H1	H2	L	Kg	
4	M5x0.8	<b>7640 04 19</b>	6	8.5	26	23.5	14	6.5	19.5	0.011
	G1/8	<b>7640 04 10</b>	7	8.5	29.5	27	14	8	19.5	0.015
6	M5x0.8	<b>7640 06 19</b>	6	10.5	26	23.5	16	6.5	21	0.001
	G1/8	<b>7640 06 10</b>	7	10.5	29.5	27	16	8	20.5	0.015

## 7649 Miniature Swivel Outlet Flow Regulator Supply, Male BSPP and Metric Thread

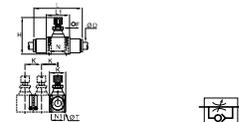
Technical polymer, Nickel-plated brass, NBR



ØD	C	F	G	H max	H min	H1	H2	L	Kg	
4	M5x0.8	<b>7649 04 19</b>	6	8.5	27	24	14	6.5	19	0.015
6	M5x0.8	<b>7649 06 19</b>	6	10.5	27	24	16	6.5	21	0.008
	G1/8	<b>7649 06 10</b>	7	10.5	30.5	28	16	8.5	21.5	0.015

## 7770 In-Line One-Way Flow Regulator

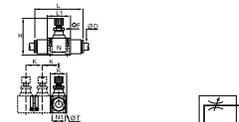
Technical polymer, Nickel-plated brass, NBR



ØD	F	H max	H min	K	L	L1	N	N1	ØT	Kg	
4	<b>7770 04 00</b>	5	33.5	29.5	12	36	15	11	8	2.2	0.009
6	<b>7770 06 00</b>	8	44.5	40.5	17	51	23	17	11	3.2	0.024
8	<b>7770 08 00</b>	11	52.5	46.5	18.5	58	26	20	12.5	3.2	0.048
10	<b>7770 10 00</b>	14	61	53	24	73	33	26	16	4.2	0.097
12	<b>7770 12 00</b>	14	67.5	59	28	85	35	27.5	20	4.2	0.132

## 7772 Bi-Directional In-Line Flow Regulator

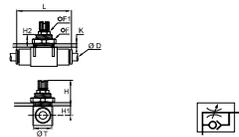
Technical polymer, Nickel-plated brass, NBR



ØD	F	H max	H min	K	L	L1	N	N1	ØT	Kg	
4	<b>7772 04 00</b>	5	33.5	29.5	12	36	15	11	8	2.2	0.009
6	<b>7772 06 00</b>	8	44.5	40	17	51	23	17	11	3.2	0.024
8	<b>7772 08 00</b>	11	52.5	46.5	18.5	58	26	20	12.5	3.2	0.054

## 7776 Panel-Mountable In-Line One-Way Flow Regulator

Technical polymer, Nickel-plated brass, NBR

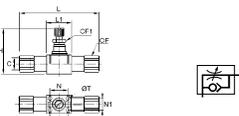


ØD	F	F1	H	H max	H1	H2	K	L	ØT	Kg	
4	<b>7776 04 00*</b>	14	38	41	6.5	11	6	36	10.5	0.015	
6	<b>7776 06 00*</b>	22	45.5	49	7.5	13.5	7	51	16.5	0.038	
8	<b>7776 08 00</b>	22	45.5	54	9	13.5	7	58	18.5	0.069	
10	<b>7776 10 00</b>	30	14	54	62	11.5	13.5	7	73	24.5	0.136
12	<b>7776 12 00</b>	32	14	61	71	12.5	15.5	8	85	27.5	0.185

\*Ultrafine adjustment

## 7771 In-Line One-Way Flow Regulator, Female BSPP Thread

Technical polymer, Nickel-plated brass, NBR



C	F	F1	H max	H min	L	L1	N	N1	ØT	Kg	
G1/8	<b>7771 10 10</b>	13	8	44.5	39.5	68.5	23	17	11	3.2	0.043
G1/4	<b>7771 13 13</b>	16	11	50	44	83	26	20	12.5	3.2	0.103
G3/8	<b>7771 17 17</b>	19	14	61	52	97	33	26	16	4.2	0.160
G1/2	<b>7771 21 21</b>	24	14	67.5	57.5	121	35	27.5	20	4.2	0.260

## 7000 Joining Clips

Technical polymer

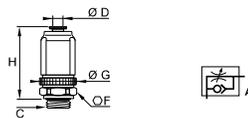


ØD		Kg
4	<b>7000 00 04</b>	0.001
6-8	<b>7000 00 05</b>	0.005
10-12	<b>7000 00 06</b>	0.001

To be used with 7770,7771,7772 and 7776 series.

## 7020 Straight Flow Regulator Exhaust, Male BSPP Thread

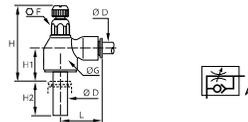
Technical polymer, Nickel-plated brass, NBR



ØD	C	F	G	H max	H min	Kg
8	G1/8	<b>7020 08 10</b>	24	27	52.5	46.5 0.110

## 7030 Compact Plug-In Flow Regulator, Exhaust

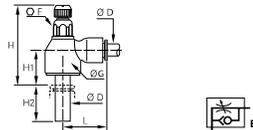
Technical polymer, Nickel-plated brass, NBR



ØD		F	G	H max	H min	H1	H2	L	Kg
6	<b>7030 06 00</b>	10	16	41	35	14	17	22	0.013
8	<b>7030 08 00</b>	14	19	46.5	39.5	16	21.5	28	0.022
12	<b>7030 12 00</b>	17	23	51	43	17	27	35	0.044

## 7031 Compact Plug-In Flow Regulator, Supply

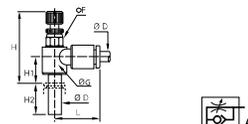
Technical polymer, Nickel-plated brass, NBR



ØD		F	G	H max	H min	H1	H2	L	Kg
6	<b>7031 06 00</b>	10	16	41	35	14	17	22	0.013
8	<b>7031 08 00</b>	14	19	46.5	39.5	16	21.5	28	0.035

## 7630 Miniature Plug-In Flow Regulator, Exhaust

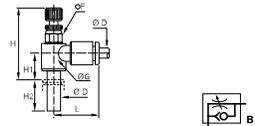
Technical polymer, Nickel-plated brass, NBR



ØD		F	G	H max	H min	H1	H2	L	Kg
4	<b>7630 04 00</b>	6	9	28	25.5	9.5	15.5	17	0.007
6	<b>7630 06 00</b>	7	11.5	29	27.5	10.5	17	18.5	0.012

## 7631 Miniature Plug-In Flow Regulator, Supply

Technical polymer, Nickel-plated brass, NBR

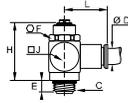


ØD		F	G	H max	H min	H1	H2	L	Kg
4	<b>7631 04 00</b>	6	9	28	25.5	9.5	15.5	17	0.007
6	<b>7631 06 00</b>	7	11.5	29	27.5	10.5	17	18.5	0.011

# Metal Flow Control Regulators / With Recessed Adjustment

## 7130 Flow Regulator, Exhaust, Male BSPP and Metric Thread

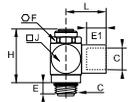
Nickel-plated brass, NBR



ØD	C		E	F	H	J	L	Kg
4	M5x0.8	<b>7130 04 19</b>	4	8	17	9	19	0.010
	G1/8	<b>7130 04 10</b>	5	13	29	15	20	0.037
6	M5x0.8	<b>7130 06 19</b>	4	8	17	9	24	0.013
	G1/8	<b>7130 06 10</b>	5	13	29	15	22	0.038
	G1/4	<b>7130 06 13</b>	8	17	31	18	24	0.062
8	G1/8	<b>7130 08 10</b>	5	13	29	15	25	0.042
	G1/4	<b>7130 08 13</b>	8	17	31	18	28	0.066
	G3/8	<b>7130 08 17</b>	7	20	40	21.5	29	0.109
10	G1/4	<b>7130 10 13</b>	8	17	31	18	30	0.075
	G3/8	<b>7130 10 17</b>	7	20	40	21.5	32	0.119
	G1/2	<b>7130 10 21</b>	8	23	53	28	34	0.227
12	G3/8	<b>7130 12 17</b>	7	20	40	22	36	0.064
	G1/2	<b>7130 12 21</b>	8	23	53	28	38	0.306

## 7140 Flow Regulator Exhaust, Male/Female BSPP and Metric Thread

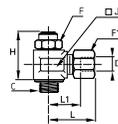
Nickel-plated brass, NBR



C		E	E1	F	H	J	L	Kg
M5x0.8	<b>7140 19 19</b>	4	4	8	21	9	11	0.009
G1/8	<b>7140 10 10</b>	5	8	13	32	15	17	0.039
G1/4	<b>7140 13 13</b>	8	12	17	39	18	24	0.073
G3/8	<b>7140 17 17</b>	7	12	20	47	21.5	27	0.124
G1/2	<b>7140 21 21</b>	8	15	23	61	28	31	0.238

## 7160 Flow Regulator with Brass Compression Fitting, Exhaust, Male BSPP Thread

Nickel-plated brass, NBR

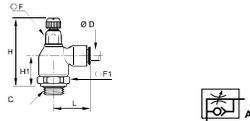


ØD	C		F	F1	H	J	L	L1	Kg
4	G1/8	<b>7160 04 10</b>	13	10	26	17	25.5	14.5	0.051
	G1/8	<b>7160 06 10</b>	13	13	26	17	25.5	14.5	0.054
6	G1/4	<b>7160 06 13</b>	17	13	31.5	22	28.5	17.5	0.101
	G1/8	<b>7160 08 10</b>	13	14	26	17	29.5	15.5	0.055
8	G1/4	<b>7160 08 13</b>	17	14	31.5	22	31	17	0.101
	G1/4	<b>7160 10 13</b>	17	19	31.5	22	35	19	0.117
10	G3/8	<b>7160 10 17</b>	20	19	44.5	22	37.5	19	0.190
	G1/2	<b>7160 10 21</b>	23	19	50	27	37.5	19	0.204
12	G1/2	<b>7160 12 21</b>	23	22	50	27	38	21.5	0.212

# Metal Flow Control Regulators / With External Adjustment

## 7100 Compact Flow Regulator, Exhaust, Male BSPP Thread

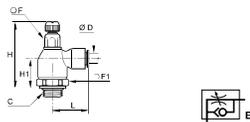
Nickel-plated brass, NBR



ØD	C	F	F1	H max	H min	H1	L	Kg
4	G1/8 <b>7100 04 10</b>	10	19	53	47	23	21	0.080
	G1/8 <b>7100 06 10</b>	10	19	53	47	23	24.5	0.082
6	G1/4 <b>7100 06 13</b>	10	19	53	47.5	23.5	24.5	0.085
	G1/8 <b>7100 08 10</b>	14	19	55	50	24.5	29	0.097
8	G1/4 <b>7100 08 13</b>	14	19	56	50	25	29	0.101
	G3/8 <b>7100 08 17</b>	17	25	62	56	27	30.5	0.154
10	G1/4 <b>7100 10 13</b>	14	19	56	50	25	35	0.106
	G3/8 <b>7100 10 17</b>	17	25	62	56	27	35	0.157
12	G3/8 <b>7100 12 17</b>	17	25	62	56	27	38	0.198
	G1/2 <b>7100 12 21</b>	17	25	62	55	27	38	0.207
14	G1/2 <b>7100 14 21</b>	17	25	62	55	27	41	0.205

## 7101 Compact Flow Regulator, Supply, Male BSPP Thread

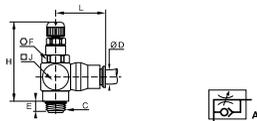
Nickel-plated brass, NBR



ØD	C	F	F1	H max	H min	H1	L	Kg
4	G1/8 <b>7101 04 10</b>	10	19	53	47	23	21	0.096
	G1/8 <b>7101 06 10</b>	10	19	53	47	23	24.5	0.081
6	G1/4 <b>7101 06 13</b>	10	19	53	47.5	23.5	24.5	0.084
	G1/8 <b>7101 08 10</b>	14	19	55	50	24.5	29	0.097
8	G1/4 <b>7101 08 13</b>	14	19	56	50	25	29	0.101
	G3/8 <b>7101 08 17</b>	17	25	62	56	27	30.5	0.155

## 7680 Compact Flow Regulator, Exhaust, Male BSPP Thread

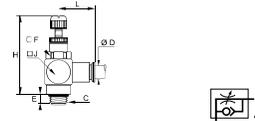
Nickel-plated brass, NBR



ØD	C	E	F	H max	H min	J	L	Kg
6	G1/8 <b>7680 06 10</b>	5	13	44	39	7.5	24.5	0.045
	G1/8 <b>7680 08 10</b>	5	13	44	39	7.5	24.5	0.047
8	G1/4 <b>7680 08 13</b>	8	17	47	41	9	27	0.076
10	G3/8 <b>7680 10 17</b>	7	20	60	50	11	34	0.133
12	G1/2 <b>7680 12 21</b>	8	23	77	65	14	36.5	0.165

## 7180 Miniature Flow Regulator Exhaust, Male BSPP and Metric Thread

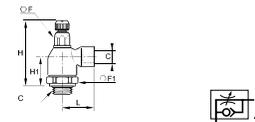
Nickel-plated brass, NBR



ØD	C	E	F	H max	H min	J	L	Kg
4	M5x0.8 <b>7180 04 19</b>	4	8	29	24	10	19	0.012
	G1/8 <b>7180 04 10</b>	5	13	44	39	15	20	0.041
6	M5x0.8 <b>7180 06 19</b>	4	8	29	24	10	24	0.015
	G1/8 <b>7180 06 10</b>	5	13	44	39	15	22	0.043
8	G1/8 <b>7180 08 10</b>	5	13	44	39	15	26	0.049

## 7110 Compact Flow Regulator Exhaust, Male/Female BSPP Thread

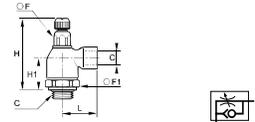
Nickel-plated brass, NBR



C	F	F1	H max	H min	H1	L	Kg
G1/8 <b>7110 10 10</b>	10	19	52.5	47	23	22.5	0.080
G1/4 <b>7110 13 13</b>	14	19	55.5	50.5	25	32	0.107
G3/8 <b>7110 17 17</b>	17	25	62	56	27	34.5	0.212
G1/2 <b>7110 21 21</b>	17	25	62	55	27	37.5	0.191

## 7111 Compact Flow Regulator Supply, Male/Female BSPP Thread

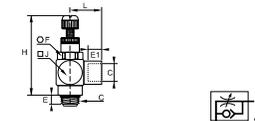
Nickel-plated brass, NBR



C	F	F1	H max	H min	H1	L	Kg
G1/8 <b>7111 10 10</b>	10	19	52.5	47	23	22.5	0.079
G1/4 <b>7111 13 13</b>	14	19	55.5	50.5	25	32	0.108

## 7190 Miniature Flow Regulator Exhaust, Male/Female BSPP and Metric Thread

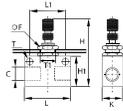
Nickel-plated brass, NBR



C	E	E1	F	H max	H min	J	L	Kg
M5x0.8 <b>7190 19 19</b>	4	4	8	29	24	10	11	0.012
G1/8 <b>7190 10 10</b>	5	8	13	44	39	15	17	0.044

## 7170 Panel-Mountable In-Line Flow Regulator, Female BSPP and Metric Thread

Treated aluminium, NBR, brass



C		F	H max	H min	H1	K	L	L1	ØT	Kg
M5x0.8	 <b>7170 19 19</b>	12	42	38	15	12	25	18	4.5	0.021
G1/8	<b>7170 10 10</b>	15	56	49	22	18	35	24.7	4.5	0.056
G1/4	<b>7170 13 13</b>	15	64	57	30	20	46	35	6.5	0.088
G3/8	<b>7170 17 17</b>	22	73	62	30	25	50	35	6.5	0.154
G1/2	<b>7170 21 21</b>	22	83	72	40	25	60	44	6.5	0.195

# Metal Flow Control Regulators / Stainless Steel



With its 316L stainless steel body and adjustment screw, this range combines precise adjustment, accuracy and compactness for applications in environments with high mechanical or chemical constraints.

## Technical Characteristics

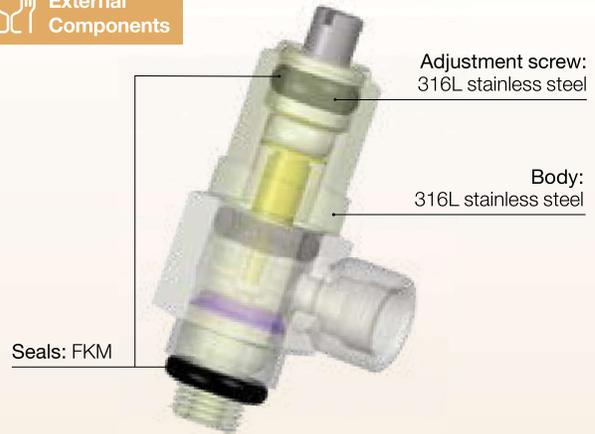
Compatible Fluids	Compressed air <b>7822:</b> all compatible fluids depending on whether FKM or PTFE seals are used
Working Pressure	<b>7810-7812:</b> 1 to 10 bar <b>7820:</b> 1 to 16 bar <b>7822:</b> 1 to 40 bar
Working Temperature	<b>7810 – 7812:</b> 0°C to +70°C <b>7820 – 7822:</b> -15° to +120°C

## Advantages

- Compatibility with aggressive, mechanical and chemical environments
- For food process applications:**
  - Guarantees the integrity of the fluids conveyed
  - Easy-to-clean

## Component Materials

External Components

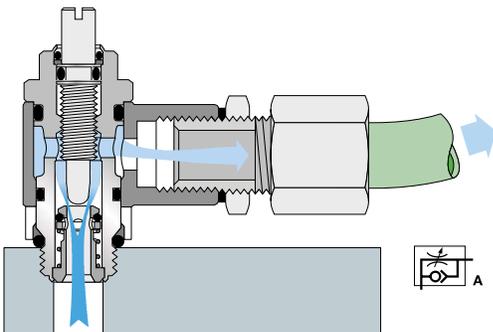


## Regulations

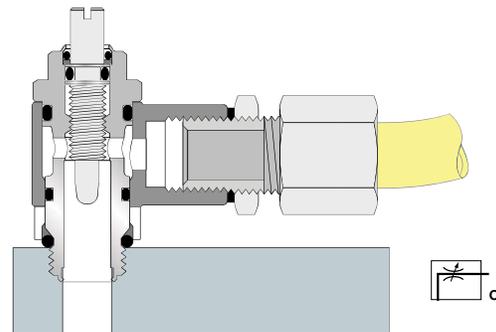
- RoHS
- REACH
- PED
- FDA: 21 CFR
- 1935/2004

## Operation

### Exhaust Model with External Adjustment

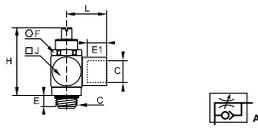


### Bi-Directional Model with External Adjustment



## 7810 Flow Regulator Exhaust, Male/Female BSPP and Metric Thread

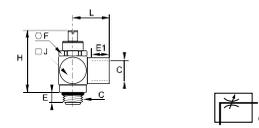
Stainless steel 316L, FKM



C		E	E1	F	H max	H min	J	L	Kg
M5x0.8	<b>7810 19 19</b>	4	4	8	26	22	9	11	0.011
G1/8	<b>7810 10 10</b>	6	8	13	38	32	15	17	0.039
G1/4	<b>7810 13 13</b>	9	12	17	40	35	18	24	0.072
G3/8	<b>7810 17 17</b>	8	12	20	53	43	22	27	0.126
G1/2	<b>7810 21 21</b>	9	15	23	71	60	28	31	0.261

## 7812 Bi-Directional Flow Regulator, Male/Female BSPP and Metric Thread

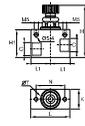
Stainless steel 316L, FKM



C		E	E1	F	H max	H min	J	L	Kg
M5x0.8	<b>7812 19 19</b>	4	4	8	26	22	9	11	0.011
G1/8	<b>7812 10 10</b>	6	8	13	38	32	15	17	0.040
G1/4	<b>7812 13 13</b>	9	12	17	40	35	18	24	0.074
G3/8	<b>7812 17 17</b>	8	12	20	53	43	22	24	0.125
G1/2	<b>7812 21 21</b>	9	15	23	71	60	28	31	0.261

## 7820 In-Line One-Way Flow Regulator, Female BSPP Thread

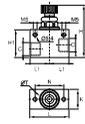
Stainless steel 316L, FKM



DN	C		H max	H min	H1	K	L	L1	N	ØT	Kg
7	G1/8	<b>7820 00 10</b>	52.5	47	30	20	40	20	30	20	0.174
7	G1/4	<b>7820 00 13</b>	52.5	47	30	20	40	20	30	20	0.164
9	G3/8	<b>7820 00 17</b>	65	56	35	25	50	25	36	20	0.285
12	G1/2	<b>7820 00 21</b>	65	58	35	25	50	25	36	20	0.305

## 7822 Bi-Directional In-Line Flow Regulator, Female BSPP Thread

Stainless steel 316L, FKM



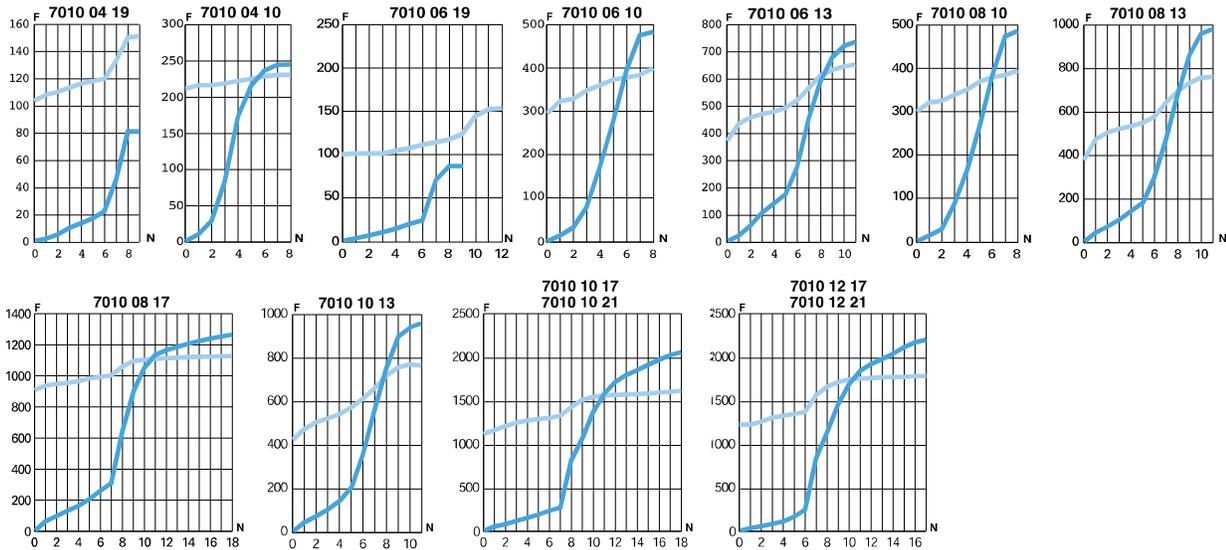
DN	C		H max	H min	H1	K	L	L1	N	ØT	Kg
7	G1/8	<b>7822 00 10</b>	52.5	48	30	20	40	20	30	20	0.176
7	G1/4	<b>7822 00 13</b>	52.5	48	30	20	40	20	30	20	0.164
9	G3/8	<b>7822 00 17</b>	65	58	35	25	50	25	36	20	0.289
12	G1/2	<b>7822 00 21</b>	87	76	40	30	60	30	42	30	0.265

# Flow Characteristics (at 6 bar) for Flow Control Regulators

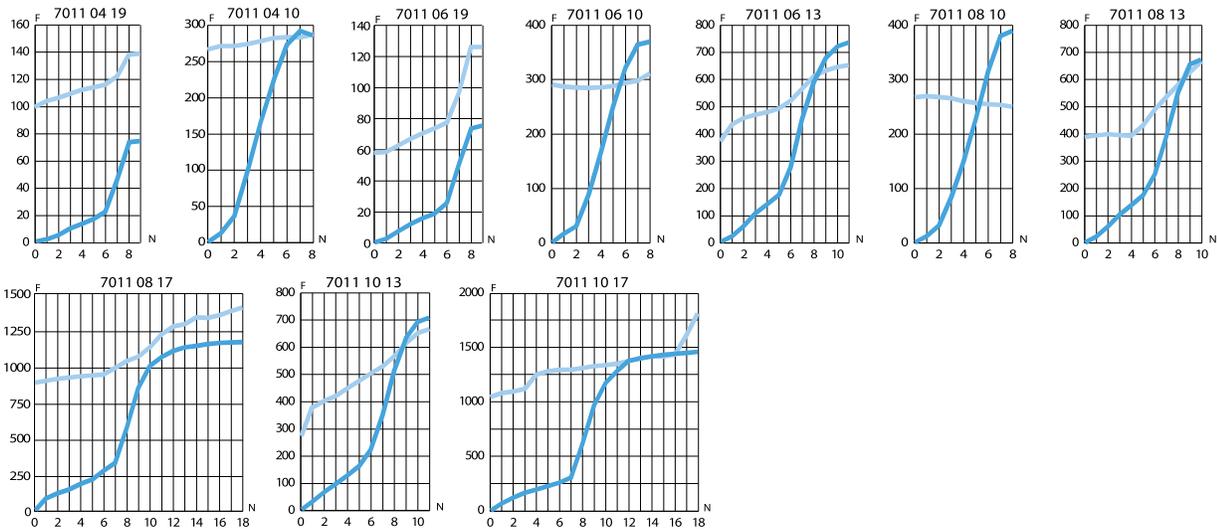


**7010**  
**7011**  
**7012**

## 7010



## 7011



## 7012

### Flow characteristics for model 7012:

- exhaust version (see model 7010, direction of adjustment)
- supply version (see model 7011, direction of adjustment)

6 bar

Direction of adjustment  
 Return

**F:** Flow in NI/min

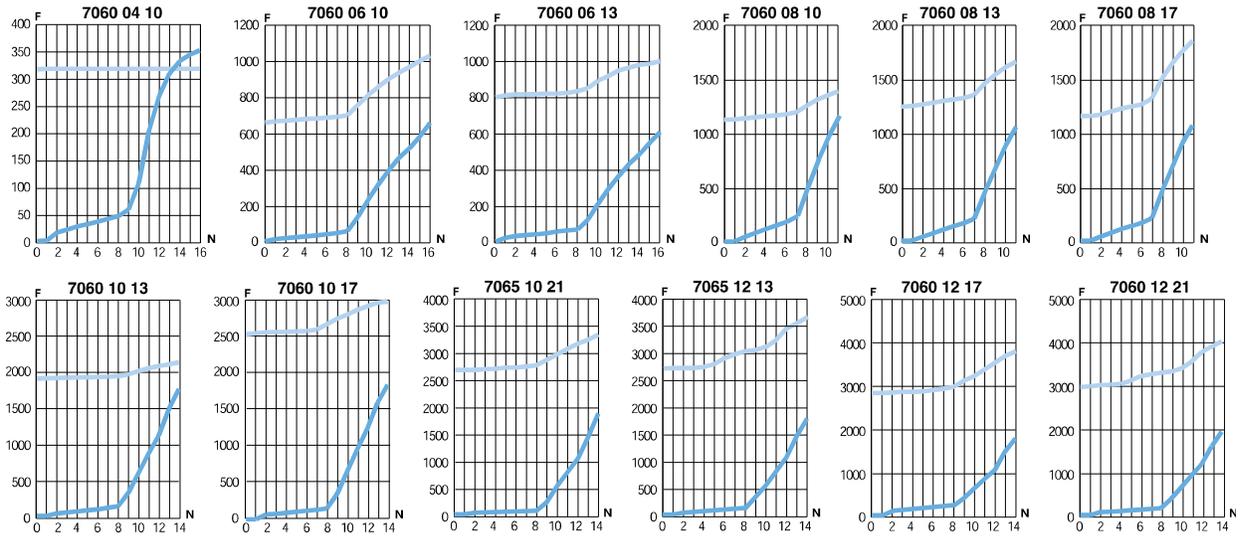
**N:** Number of turns

# Flow Characteristics (at 6 bar) for Flow Control Regulators

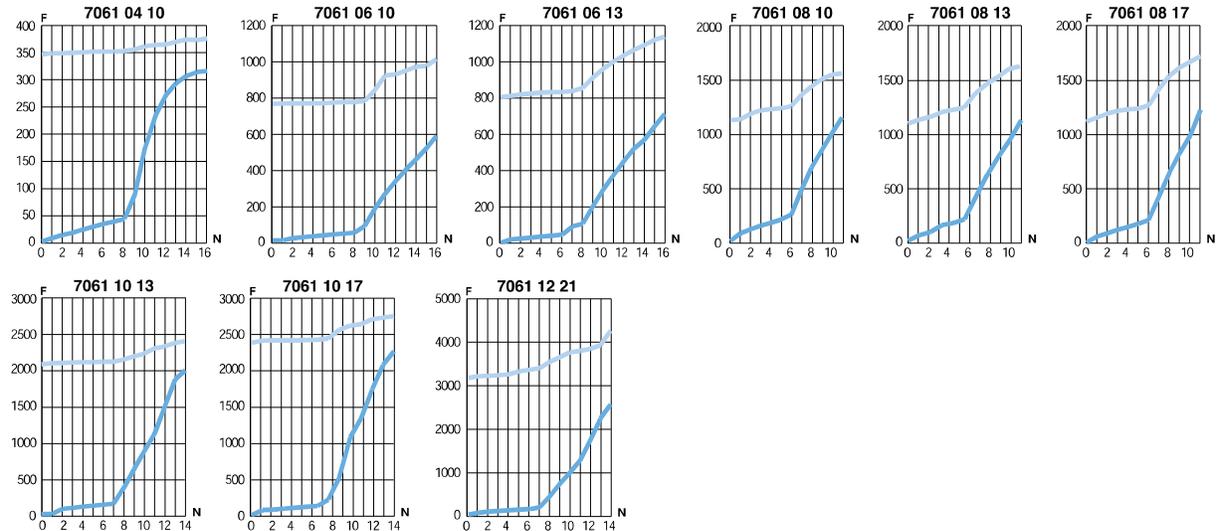


**7060**  
**7061**  
**7062**

## 7060



## 7061



## 7062

### Flow characteristics for model 7062:

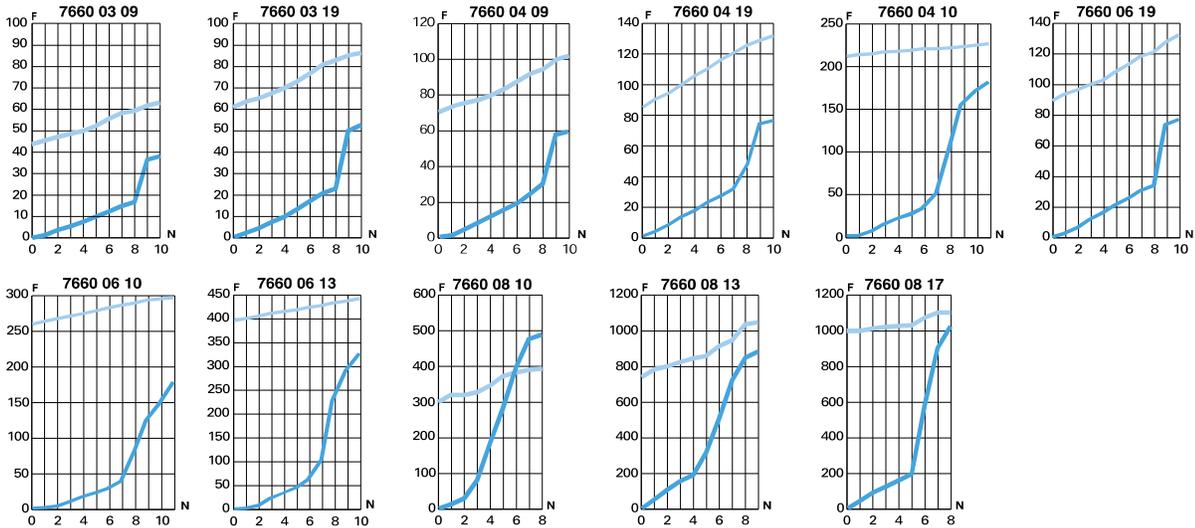
- exhaust version (see model 7060, direction of adjustment)
- supply version (see model 7061, direction of adjustment)

# Flow Characteristics (at 6 bar) for Flow Control Regulators

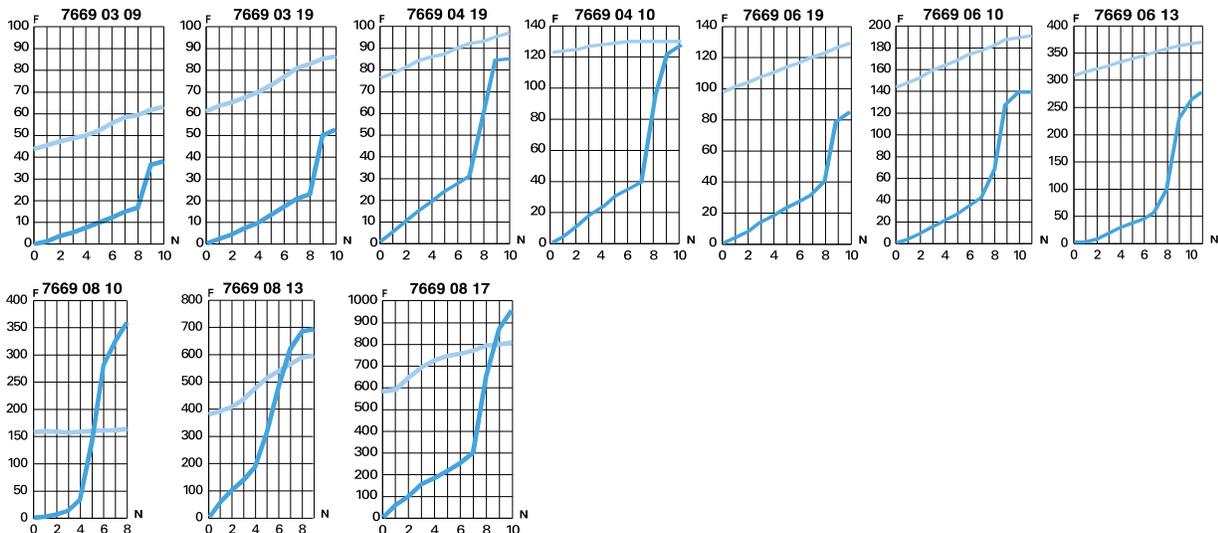


**7660**  
**7669**  
**7662**

## 7660



## 7669



## 7662

### Flow characteristics for model 7662:

- exhaust version: see model 7660, direction of adjustment
- supply version: see model 7669, direction of adjustment

6 bar

Direction of adjustment  
 Return

F: Flow in NI/min

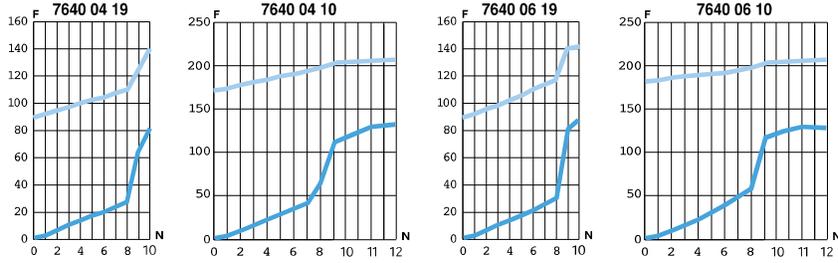
N: Number of turns

# Flow Characteristics (at 6 bar) for Flow Control Regulators

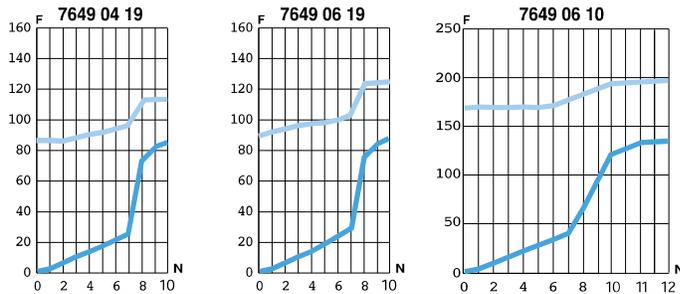


**7640**  
**7649**

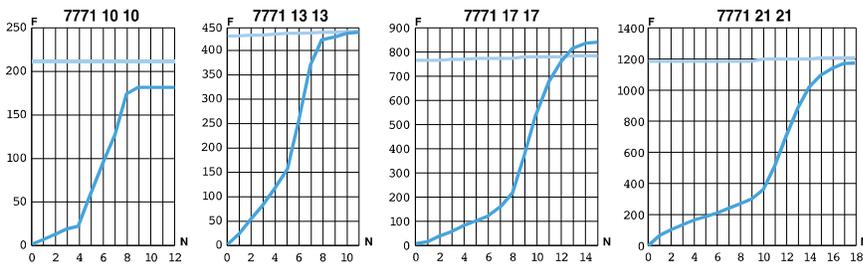
## 7640



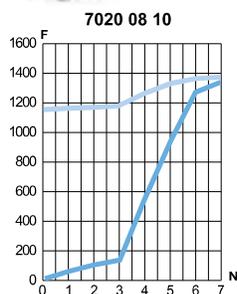
## 7649



**7771**



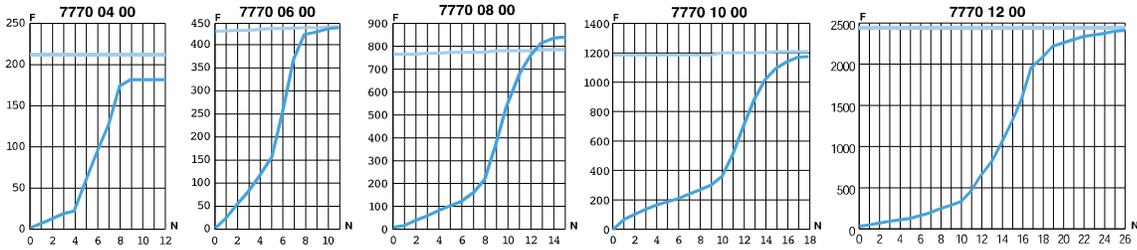
**7020**



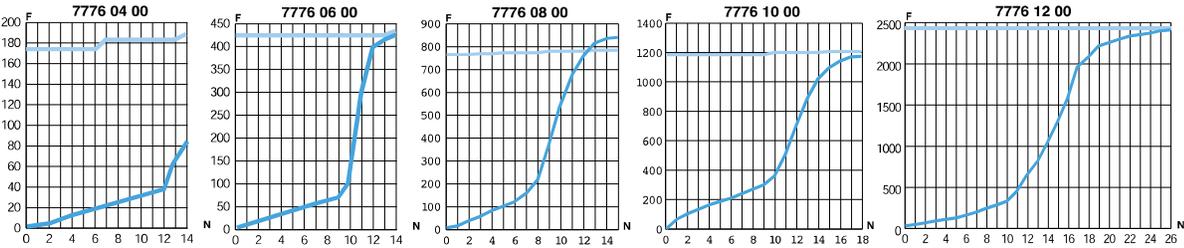
# Flow Characteristics (at 6 bar) for Flow Control Regulators



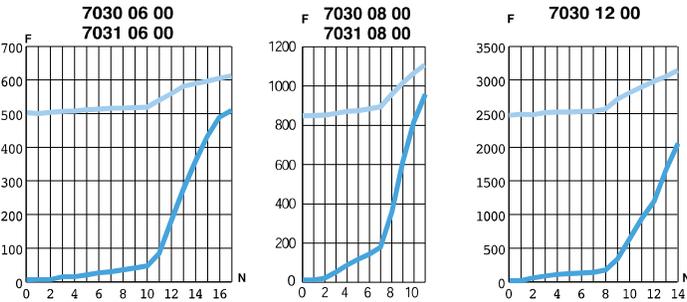
**7770**



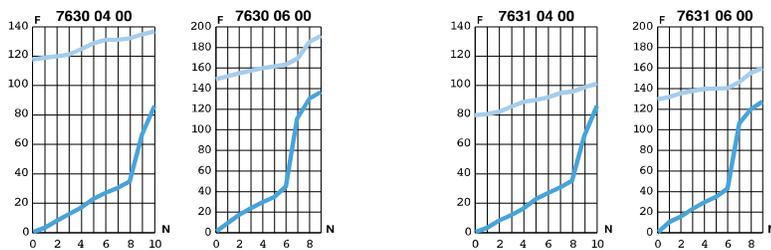
**7776**



**7030**  
**7031**



**7630**  
**7631**



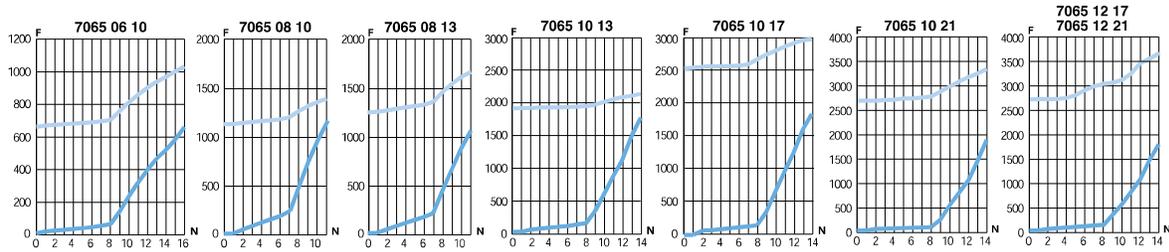
6 bar  
 Direction of adjustment  
 Return  
**F:** Flow in NI/min  
**N:** Number of turns

# Flow Characteristics (at 6 bar) for Flow Control Regulators

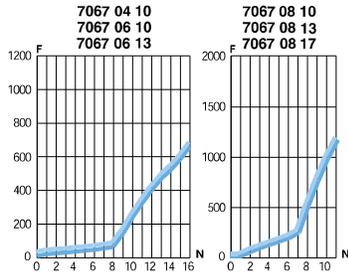


**7065**  
**7067**

## 7065

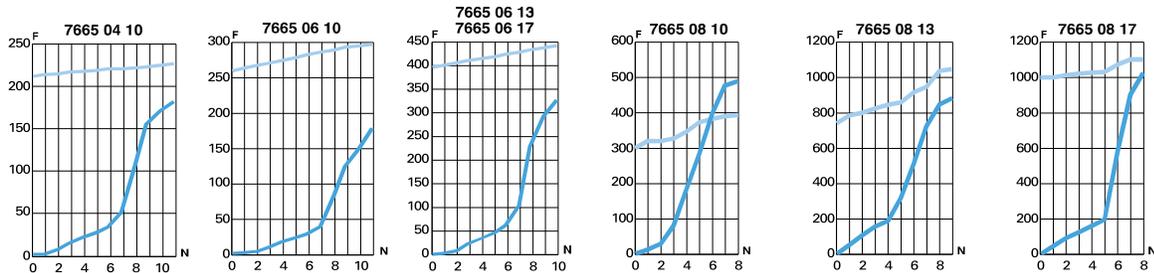


## 7067

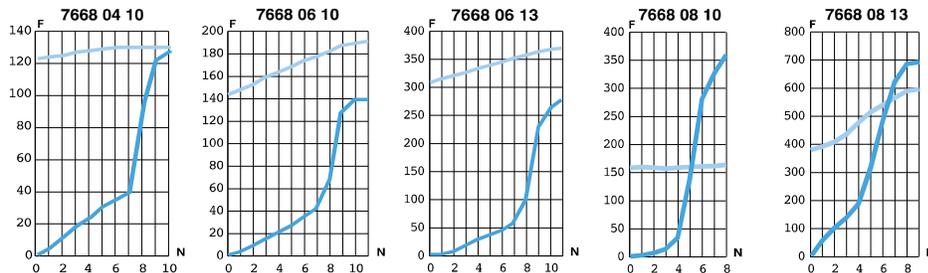


**7665**  
**7668**

## 7665



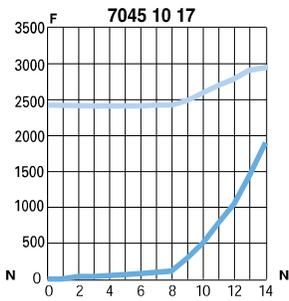
## 7668



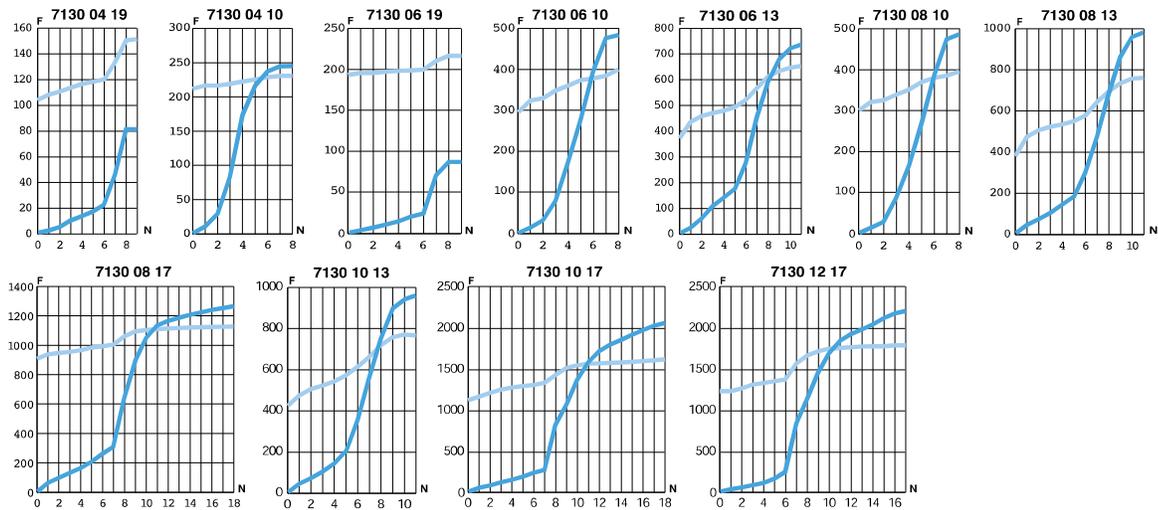
# Flow Characteristics (at 6 bar) for Flow Control Regulators



**7045**



**7130**

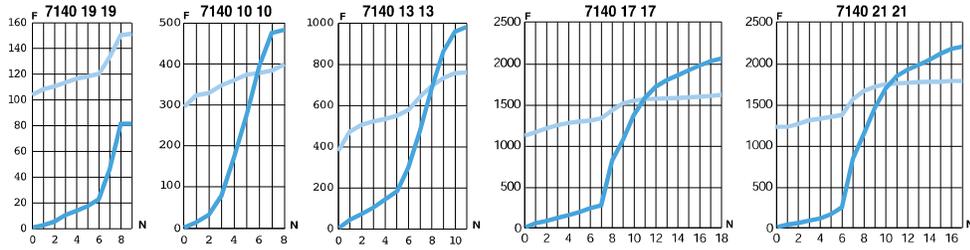


6 bar  
█ Direction of adjustment  
█ Return  
**F:** Flow in NI/min  
**N:** Number of turns

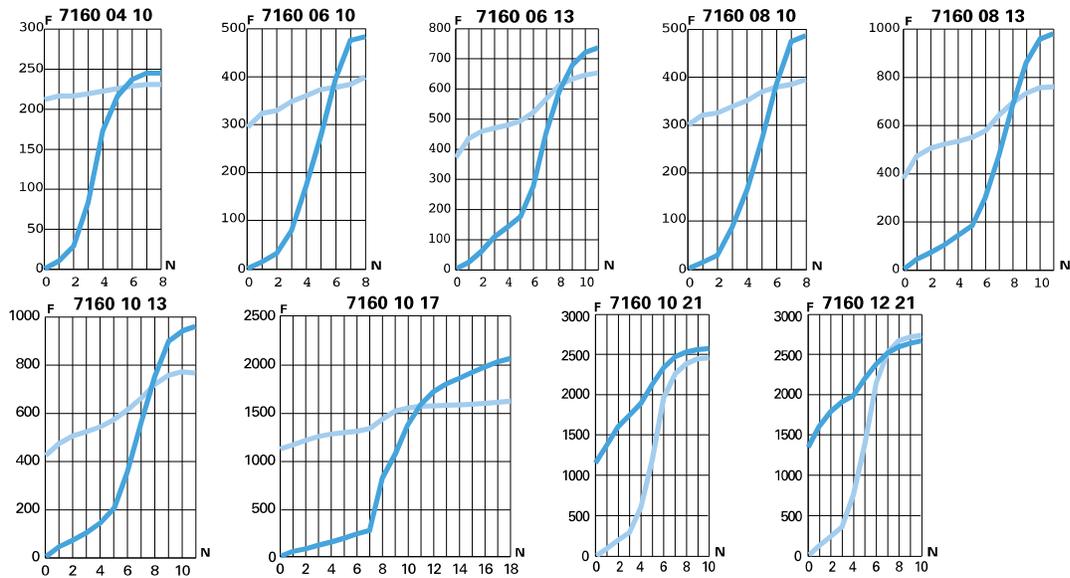
# Flow Characteristics (at 6 bar) for Flow Control Regulators



## 7140



## 7160

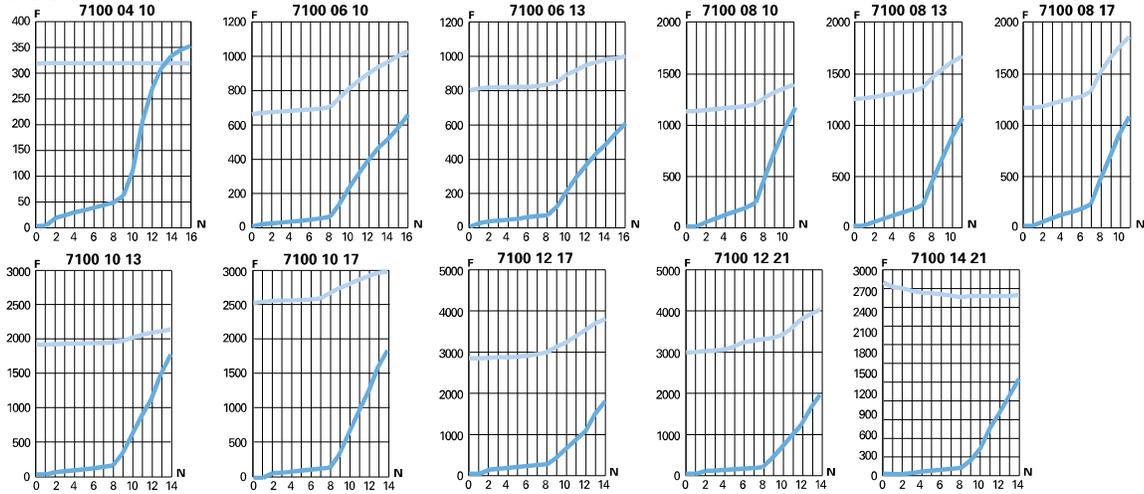


# Flow Characteristics (at 6 bar) for Flow Control Regulators

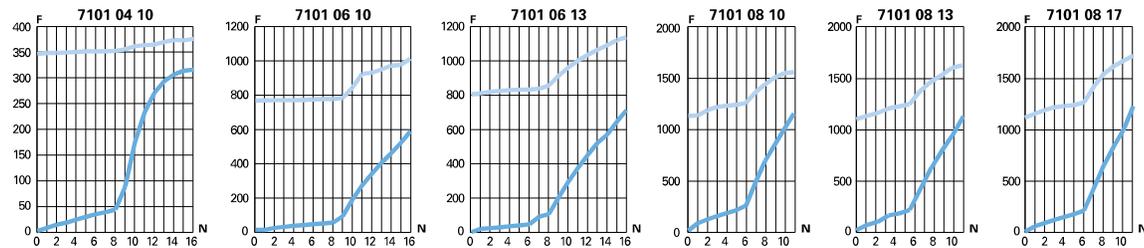


**7100**  
**7101**

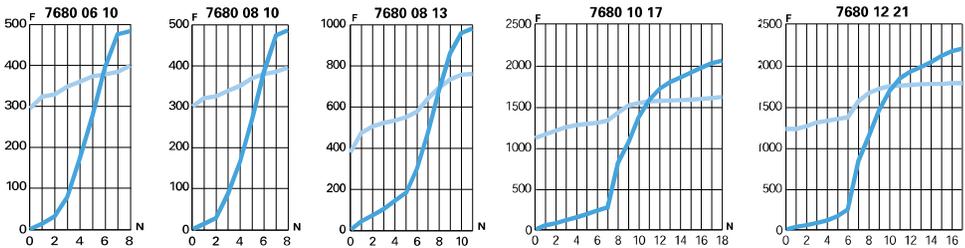
## 7100



## 7101



**7680**



6 bar

— Direction of adjustment  
— Return

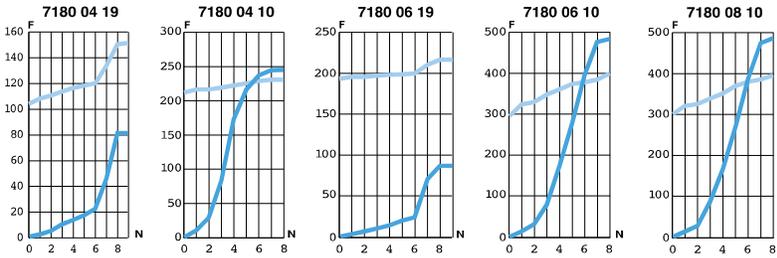
F: Flow in Nl/min

N: Number of turns

# Flow Characteristics (at 6 bar) for Flow Control Regulators

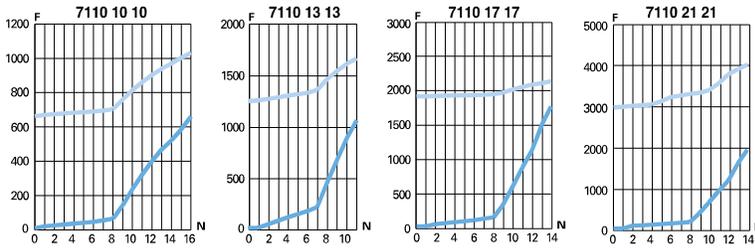


## 7180

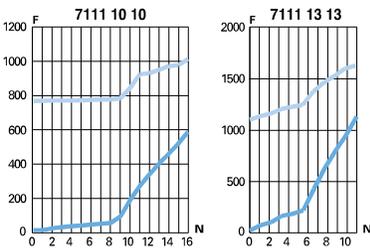


## 7110 7111

### 7110



### 7111



## 7170

