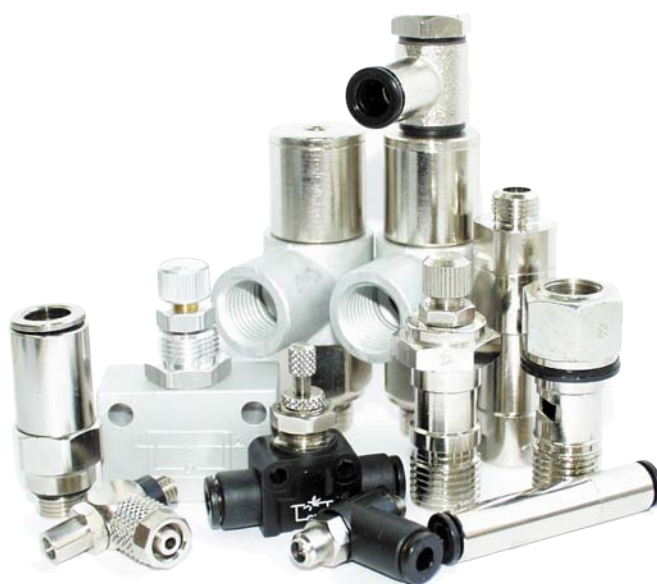


# Funktionsverschraubungen

Functions Fittings

*Raccordi di Funzione*

Raccords de Fonction





## Technische Angaben

### **Drosselrückschlagventile (mit Ringstück), Energiespar- und Kipphebelventil**

Materialien: Messing vernickelt, O-Ringe aus NBR, Dichtungen aus Kunststoff  
Temp.-Bereich: 0° bis +80°C  
Druck: max. 10bar

### **Rückschlagverbinder/ Rückschlagverschraubung**

Materialien: Messing vernickelt, O-Ringe aus NBR, Dichtungen aus Kunststoff  
Temp.-Bereich: 0° bis +80°C  
Druck: 0,2 bis 10bar

### **Rückschlagventile (Sechskant)**

Materialien: Messing vernickelt, O-Ringe aus NBR  
Temp.-Bereich: -10° bis +70°C  
Druck: 0,2 bis 10bar

### **Drosselrückschlagventile aus Kunststoff**

Materialien: Kunststoff, Einstellschraube Messing vernickelt, O-Ringe aus NBR, Dichtungen aus Kunststoff  
Temp.-Bereich: 0° bis +80°C  
Druck: max. 10bar

### **Drosselventil (Block), Handschiebeventil**

Materialien: Aluminium, Messing vernickelt, Kunststoff, O-Ringe aus NBR, Dichtungen aus Kunststoff  
Temp.-Bereich: 0° bis +70°C  
Druck: max. 10bar

### **Schnellentlüftungsventil VSR**

Materialien: Messing vernickelt, Membrane aus Kunststoff  
Temp.-Bereich: -10° bis +70°C  
Druck: 0,3 bis 10bar

Ipsos 028, 029, 030, 039, 040, 045, 046, 048, 049, 050, entsperrebare Rückschlagventile, Drosselrückschlagventile Typ A, B, C, Energiesparventil, Kipphebelventil

Ipsos 032,033

### **Rückschlagventil**

Drosselrückschlagventil 041,042,043

### **Drosselrückschlagventil Blockform, Handschiebeventil**

### **Schnellentlüftungsventil VSR**



## Technical features

### **Flow regulators (with single banjo body), pressure control valve and pneumatic switch**

Materials: brass nickel-plated, O-Rings NBR, seals synthetic material  
Temp.-range: 0° to +80°C  
Pressure: max. 10bar

### **Straight unidirectional connection**

Materials: brass nickel-plated, O-Rings NBR, seals synthetic material  
Temp.-range: 0° to +80°C  
Pressure: 0,2 to 10bar

### **Non return valves**

Materials: brass nickel-plated, O-Rings NBR  
Temp.-range: -10° to +70°C  
Pressure: 0,2 to 10bar

### **Acetal line flow regulator**

Materials: Synthetic materials, screw brass nickel-plated, O-Rings NBR, seals synthetic material  
Temp.-range: 0° to +80°C  
Pressure: max. 10bar

### **Unidirectional flow regulator (cube), slide valve**

Materials: Aluminium, brass nickel-plated, synthetic materials, O-Rings NBR, seals synthetic material  
Temp.-range: 0° to +70°C  
Pressure: max. 10bar

### **Quick exhaust valve VSR**

Materials: brass nickel-plated, membrane synthetic material  
Temp.-range: -10° to +70°C  
Pressure: 0,3 to 10bar

Ipsos 028, 029, 030, 039, 040, 045, 046, 048, 049, 050, Bidirectional flow regulator, Flow regulator Typ A, B, C, Pressure control valve, Pneumatic switch

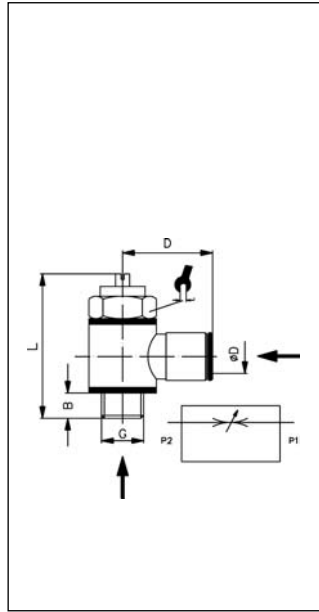
Ipsos 032,033

### **Non return valves**

Acetal line flow regulator 041,042,043

### **Unidirectional flow regulator (cube), slide valve**

### **Quick exhaust valve VSR**



## ipso 030

### Drosselhohlschraube mit Ringstück

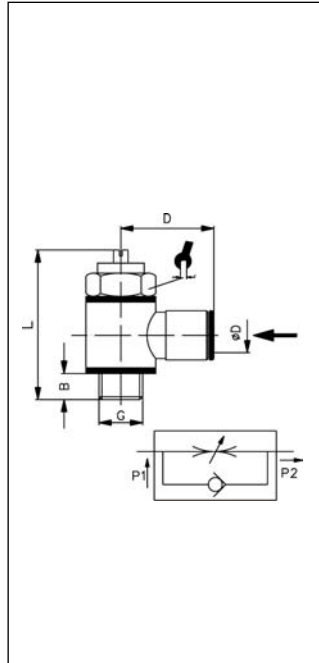
#### Typ C beidseitig drosselbar

Bidirectional flow regulator, type C

*Regolatore di flusso bidirezionale, tipo C*

Régulateur de débit de deux directions type C

	ØD	G	B	D	L		NI/min*	
304901	4	M5	6,0	17,0	24,5	8	45	50
304902	4	G <sup>1</sup> / <sub>8</sub>	5,5	21,0	31,5	14	310	50
304904	5	G <sup>1</sup> / <sub>8</sub>	5,5	22,5	31,5	14	310	50
304914	6	M5	4,0	21,0	24,5	8	45	50
304905	6	G <sup>1</sup> / <sub>8</sub>	5,5	22,5	31,5	14	390	50
304906	6	G <sup>1</sup> / <sub>4</sub>	6,0	24,0	38,0	17	710	50
304907	8	G <sup>1</sup> / <sub>8</sub>	5,5	24,5	31,5	14	390	25
304908	8	G <sup>1</sup> / <sub>4</sub>	6,0	26,0	38,0	17	810	25
304909	8	G <sup>3</sup> / <sub>8</sub>	6,0	28,0	40,0	20	1050	25
304910	10	G <sup>1</sup> / <sub>4</sub>	6,0	28,0	38,0	17	810	25



## ipso 028

### Drosselrückschlagventil mit Ringstück

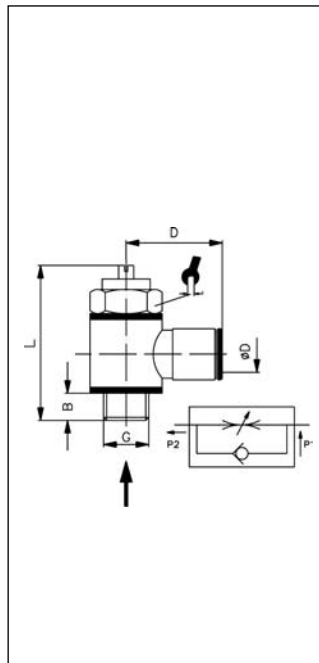
#### Typ A Zuluft drosselbar

Unidirectional flow regulator type A for valves

*Regolatore di flusso unidirezionale per valvole tipo A*

Régulateur de alimentation d'une seule direction pour valves type A

	ØD	G	B	D	L		NI/min*	
304701	4	M5	6,0	17,0	24,5	8	45	50
304702	4	G <sup>1</sup> / <sub>8</sub>	5,5	21,0	31,5	14	310	50
304704	5	G <sup>1</sup> / <sub>8</sub>	5,5	22,5	31,5	14	310	50
304714	6	M5	4,0	21,0	24,5	8	45	50
304705	6	G <sup>1</sup> / <sub>8</sub>	5,5	22,5	31,5	14	390	50
304706	6	G <sup>1</sup> / <sub>4</sub>	6,0	24,0	38,0	17	710	50
304707	8	G <sup>1</sup> / <sub>8</sub>	5,5	24,5	31,5	14	390	25
304708	8	G <sup>1</sup> / <sub>4</sub>	6,0	26,0	38,0	17	810	25
304709	8	G <sup>3</sup> / <sub>8</sub>	6,0	28,0	40,0	20	1050	25
304710	10	G <sup>1</sup> / <sub>4</sub>	6,0	28,0	38,0	17	810	25
304711	10	G <sup>3</sup> / <sub>8</sub>	6,0	29,0	40,0	20	1050	25
304713	12	G <sup>1</sup> / <sub>4</sub>	6,0	28,0	38,0	20	810	25
304712	12	G <sup>3</sup> / <sub>8</sub>	6,0	30,0	40,0	20	1050	10



## ipso 029

### Drosselrückschlagventil mit Ringstück

#### Typ B Abluft drosselbar

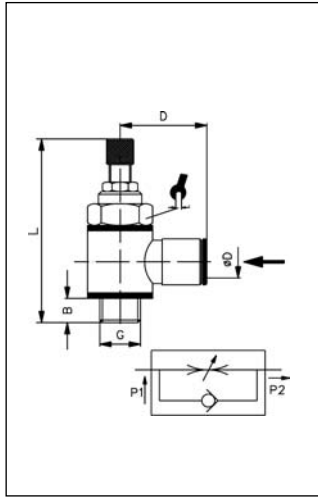
Unidirectional flow regulator type B for cylinders

*Regolatore di flusso unidirezionale per cilindri tipo B*

Régulateur de alimentation d'une seule direction pour vérins type B

	ØD	G	B	D	L		NI/min*	
304801	4	M5	6,0	17,0	24,5	8	45	50
304802	4	G <sup>1</sup> / <sub>8</sub>	5,5	21,0	31,5	14	310	50
304804	5	G <sup>1</sup> / <sub>8</sub>	5,5	22,5	31,5	14	310	50
304814	6	M5	4,0	21,0	24,5	8	45	50
304805	6	G <sup>1</sup> / <sub>8</sub>	5,5	22,5	31,5	14	390	50
304806	6	G <sup>1</sup> / <sub>4</sub>	6,0	24,0	38,0	17	710	50
304807	8	G <sup>1</sup> / <sub>8</sub>	5,5	24,5	31,5	14	390	25
304808	8	G <sup>1</sup> / <sub>4</sub>	6,0	26,0	38,0	17	810	25
304809	8	G <sup>3</sup> / <sub>8</sub>	6,0	28,0	40,0	20	1050	25
304810	10	G <sup>1</sup> / <sub>4</sub>	6,0	28,0	38,0	17	810	25
304811	10	G <sup>3</sup> / <sub>8</sub>	6,0	29,0	40,0	20	1050	25
304813	12	G <sup>1</sup> / <sub>4</sub>	6,0	28,0	38,0	20	810	25
304812	12	G <sup>3</sup> / <sub>8</sub>	6,0	30,0	40,0	20	1050	10

\*Ermittlung der Durchflußwerte bei durchschnittlich 6bar

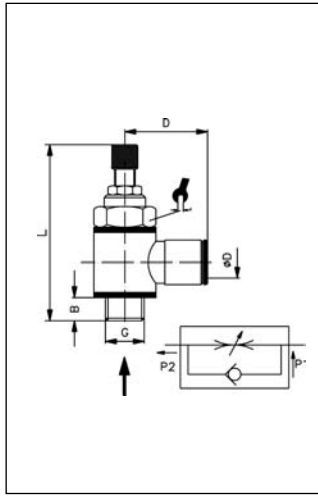


## ipso 039

**Drosselrückschlagventil mit Steckverschraubung und Rändelknopf Typ A Zuluft drosselbar**  
Flow regulator with push-in fittings and handwheel regulator type A

*Regolatore con raccordo e pomolo di regolazione tipo A*  
Régulateur d'alimentation avec raccord automatique et volant moleté type A

	ØD	G	B	D	L		NI/min*	
203901	4	G <sup>1</sup> / <sub>8</sub>	5,5	17,0	49,0	14	310	50
203902	6	G <sup>1</sup> / <sub>8</sub>	5,5	21,0	49,0	14	390	50
203903	8	G <sup>1</sup> / <sub>8</sub>	5,5	22,5	49,0	14	390	50
203904	6	G <sup>1</sup> / <sub>4</sub>	6,0	22,5	56,5	17	710	25
203905	8	G <sup>1</sup> / <sub>4</sub>	6,0	24,0	56,5	17	810	25
203906	10	G <sup>1</sup> / <sub>4</sub>	6,0	24,5	56,5	17	810	25
203907	12	G <sup>1</sup> / <sub>4</sub>	6,0	26,0	56,5	17	810	25

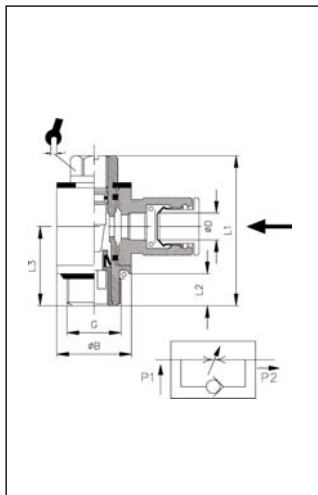


## ipso 040

**Drosselrückschlagventil mit Steckverschraubung und Rändelknopf Typ B Abluft drosselbar**  
Flow regulator with push-in fittings and handwheel regulator type B

*Regolatore con raccordo e pomolo di regolazione tipo B*  
Régulateur de débit avec raccord automatique et volant moleté type B

	ØD	G	B	D	L		NI/min*	
204001	4	G <sup>1</sup> / <sub>8</sub>	5,5	17,0	49,0	14	310	50
204002	6	G <sup>1</sup> / <sub>8</sub>	5,5	21,0	49,0	14	390	50
204003	8	G <sup>1</sup> / <sub>8</sub>	5,5	22,5	49,0	14	390	50
204004	6	G <sup>1</sup> / <sub>4</sub>	6,0	22,5	56,5	17	710	25
204005	8	G <sup>1</sup> / <sub>4</sub>	6,0	24,0	56,5	17	810	25
204006	10	G <sup>1</sup> / <sub>4</sub>	6,0	24,5	56,5	17	810	25
204007	12	G <sup>1</sup> / <sub>4</sub>	6,0	26,0	56,5	17	810	25

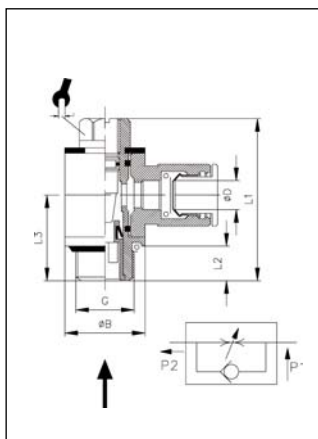


## ipso 045

**Drosselrückschlagventil mit Ringstück schwenkbar Typ A Zuluft drosselbar**

Acetal Line Flow Regulator 045 Type A  
*Regolatore di flusso 045 Tipo A*  
Régulateur de débit 045 Type A

	ØD	G	ØB	L1	L2	L3		NI/min*	
204602	4	G <sup>1</sup> / <sub>8</sub>	14	32	6	15,0	9	310	10
204605	6	G <sup>1</sup> / <sub>8</sub>	14	32	6	15,0	9	390	10
204606	8	G <sup>1</sup> / <sub>4</sub>	18	37	8	18,5	12	710	10
204607	6	G <sup>1</sup> / <sub>8</sub>	14	32	6	15,0	9	390	10
204608	8	G <sup>1</sup> / <sub>4</sub>	18	37	8	18,5	12	810	10
204610	10	G <sup>1</sup> / <sub>4</sub>	18	37	8	18,5	12	810	10
204614	12	G <sup>1</sup> / <sub>4</sub>	18	37	8	18,5	12	810	10



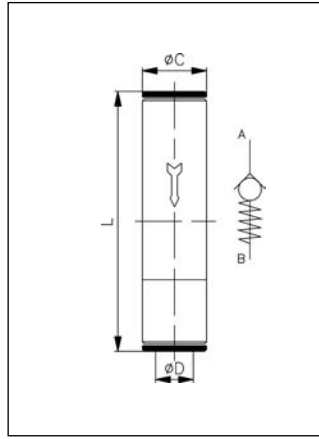
## ipso 046

**Drosselrückschlagventil mit Ringstück schwenkbar Typ B Abluft drosselbar**

Acetal Line Flow Regulator 046 Type B  
*Regolatore di flusso 046 Tipo B*  
Régulateur de débit 046 Type B

	ØD	G	ØB	L1	L2	L3		NI/min*	
204602	4	G <sup>1</sup> / <sub>8</sub>	14	32	6	15,0	9	310	10
204605	6	G <sup>1</sup> / <sub>8</sub>	14	32	6	15,0	9	390	10
204606	8	G <sup>1</sup> / <sub>4</sub>	18	37	8	18,5	12	710	10
204607	6	G <sup>1</sup> / <sub>8</sub>	14	32	6	15,0	9	390	10
204608	8	G <sup>1</sup> / <sub>4</sub>	18	37	8	18,5	12	810	10
204610	10	G <sup>1</sup> / <sub>4</sub>	18	37	8	18,5	12	810	10
204614	12	G <sup>1</sup> / <sub>4</sub>	18	37	8	18,5	12	810	10

\*Ermittlung der Durchflußwerte bei durchschnittlich 6bar



## ipso 032

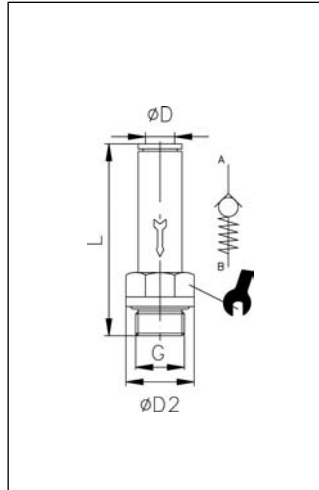
### Rückschlagverbinder

Straight unidirectional connection

Collegamento unidirezionali

Connection unidirectionnelle

	ØD	ØC	L	■
203201	4	9	40,5	50
203203	6	11	44,5	25
203204	8	13	48,5	25



## ipso 033

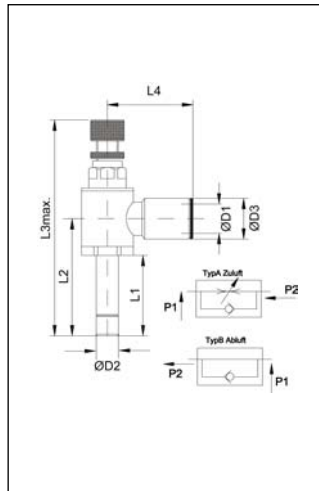
### Rückschlagverschraubung

Straight connection with non return-valve

Raccordo diritto con valvola di non ritorno

Union simple avec clapet non retour

	ØD	G	ØD2	L	■	■
203301	4	G <sup>1</sup> / <sub>8</sub>	8	35,0	9	50
203302	4	G <sup>1</sup> / <sub>8</sub>	13	28,5	11	50
203307	6	G <sup>1</sup> / <sub>4</sub>	13	35,0	13	50
203308	6	G <sup>1</sup> / <sub>8</sub>	16	37,0	14	50
203309	8	G <sup>1</sup> / <sub>4</sub>	13	36,0	15	50
203310	8	G <sup>1</sup> / <sub>4</sub>	16	37,0	16	50
203312	10	G <sup>1</sup> / <sub>4</sub>	16	40,0	18	25
203313	10	G <sup>3</sup> / <sub>8</sub>	20	40,0	18	25
203315	12	G <sup>1</sup> / <sub>2</sub>	25	44,0	22	10
203317	14	G <sup>1</sup> / <sub>2</sub>	25	50,5	25	10



## ipso 050 / ipso 051/L

### Drosselrückschlagventil steckbar

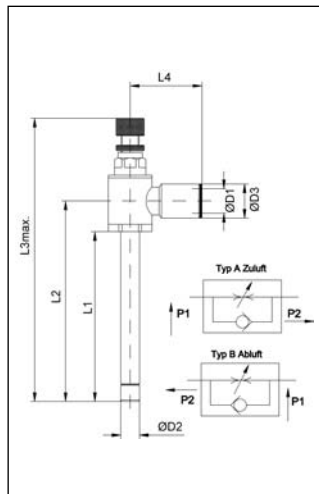
Unidirectional flow regulator

Regolatore di flusso unidirezionale

Régulateur de débit unidirectionnel

	ØD1	ØD2	ØD3	L1	L2	L3	L4	NI/min*	■
<i>ipso 050</i>									
205003A	6	6	11	18,0	28,0	60,0	22,5	310	25
205004A	8	8	13	19,5	29,5	61,5	23,5	390	25

<i>ipso 051</i>									
205009B	6	8	11	18,0	28,0	60,0	22,5	310	25
205103B	6	6	11	18,0	28,0	60,0	22,5	310	25
205104B	6	8	13	19,5	29,5	61,5	23,5	310	25
205109B	8	8	11	18,0	28,0	60,0	22,5	390	25



## ipso 050/L / ipso 051/L

### Drosselrückschlagventil steckbar-lang

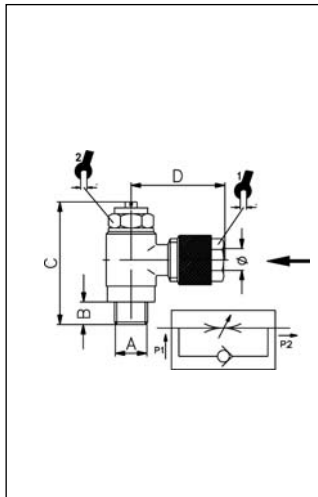
Unidirectional flow regulator

Regolatore di flusso unidirezionale

Régulateur de débit unidirectionnel

	ØD1	ØD2	ØD3	L1	L2	L3	L4	NI/min*	■
<i>ipso 050/L</i>									
205003-2A	6	6	11	60,0	70,0	102,0	22,5	310	25
205004-1A	8	8	13	61,5	71,5	103,5	23,5	390	25
205009-1A	6	8	11	60,0	70,0	102,0	22,5	310	25
<i>ipso 051</i>									
<i>ipso 051/L</i>									
205103-2B	6	6	11	60,0	70,0	102,0	22,5	310	25
205104-1B	6	8	13	61,5	71,5	103,5	23,5	310	25

\*Ermittlung der Durchflußwerte bei durchschnittlich 6bar



## Drosselrückschlagventil mit Ringstück

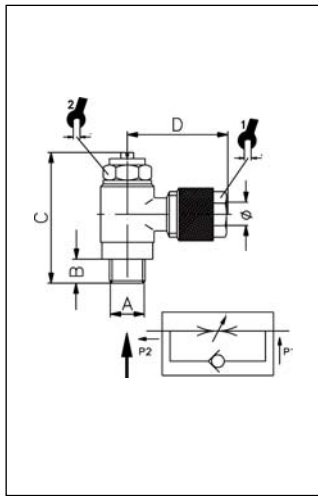
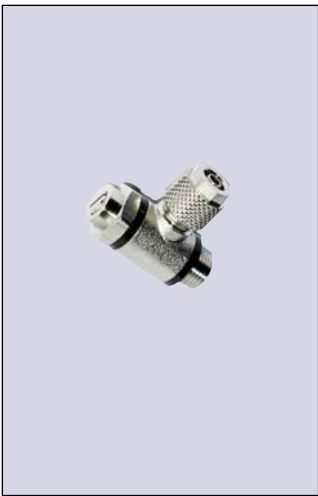
### Typ A Zuluft drosselbar

Unidirectional flow regulator, type A for valves

*Regolatore di flusso unidirezionale per valvole con raccordo a calzamento girevole tipo A*

Régulateur d'alimentation banjo type A pour valves

	Ø	A	B	C	D	⌀	⌀	NI/min*	■
304105	5/3	M5	4,0	27	15,0	8	8	45	50
304100	5/3	G <sup>1</sup> / <sub>8</sub>	5,5	34	23,0	8	14	310	50
304106	6/4	M5	4,0	27	15,0	9	8	45	50
304101	6/4	G <sup>1</sup> / <sub>8</sub>	5,5	34	23,0	10	14	310	50
304102	6/4	G <sup>1</sup> / <sub>4</sub>	6,0	38	26,0	10	17	420	50
304103	8/6	G <sup>1</sup> / <sub>8</sub>	5,5	34	23,0	12	14	310	50
304104	8/6	G <sup>1</sup> / <sub>4</sub>	6,0	38	26,0	12	17	420	50



## Drosselrückschlagventil mit Ringstück

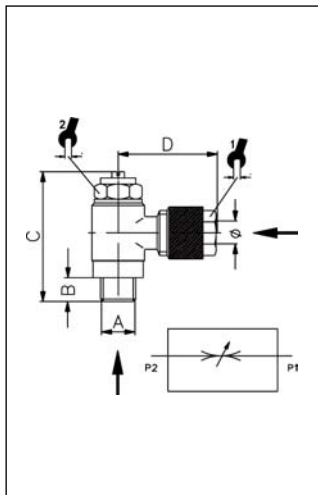
### Typ B Abluft drosselbar

Unidirectional flow regulator, type B for cylinders

*Regolatore di flusso unidirezionale per cilindri con raccordo a calzamento girevole*

Régulateur de débit banjo type B pour vérins

	Ø	A	B	C	D	⌀	⌀	NI/min*	■
304205	5/3	M5	4,0	27	15,0	8	8	45	50
304200	5/3	G <sup>1</sup> / <sub>8</sub>	5,5	34	23,0	8	14	310	50
304206	6/4	M5	4,0	27	15,0	9	8	45	50
304201	6/4	G <sup>1</sup> / <sub>8</sub>	5,5	34	23,0	10	14	310	50
304202	6/4	G <sup>1</sup> / <sub>4</sub>	6,0	38	26,0	10	17	420	50
304203	8/6	G <sup>1</sup> / <sub>8</sub>	5,5	34	23,0	12	14	310	50
304204	8/6	G <sup>1</sup> / <sub>4</sub>	6,0	38	26,0	12	17	420	50
304207	8/6	G <sup>3</sup> / <sub>8</sub>	7,0	52	26,0	12	20	500	50



## Drosselhohlschraube mit Ringstück

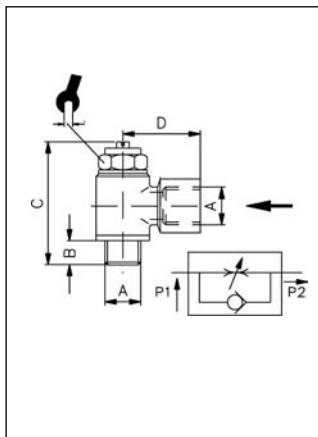
### Typ C beidseitig drosselbar

Bidirectional flow regulator, type C

*Regolatore di flusso bidirezionale con raccordo a calzamento girevole type C*

Régulateur de débit banjo bidirectionnel type C

	Ø	A	B	C	D	⌀	⌀	NI/min*	■
304305	5/3	M5	4,0	27	15,0	8	8	45	50
304306	6/4	M5	4,0	27	15,0	8	8	310	50
304301	6/4	G <sup>1</sup> / <sub>8</sub>	5,5	34	23,0	10	14	45	50
304302	6/4	G <sup>1</sup> / <sub>4</sub>	6,0	38	26,0	10	17	310	50
304303	8/6	G <sup>1</sup> / <sub>8</sub>	5,5	34	23,0	12	14	420	50
304304	8/6	G <sup>1</sup> / <sub>4</sub>	6,0	38	26,0	12	17	310	50



## Drosselrückschlagventil mit Innengewinde

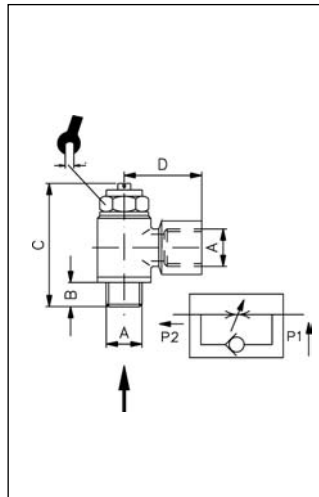
### Typ A Zuluft drosselbar

Unidirectional flow regulator type A, for valves with female thread

*Regolatore di flusso unidirezionale per valvole con anello femmina tipo A*

Régulateurs d'alimentation banjo taraudé type A pour valves

	A	B	C	D	⌀	NI/min*	■
304401	M5	3,5	30,0	10,5	8	45	50
304402	G <sup>1</sup> / <sub>8</sub>	4,5	34,0	16,0	14	310	50
304403	G <sup>1</sup> / <sub>4</sub>	6,5	38,0	22,0	17	450	50
304404	G <sup>3</sup> / <sub>8</sub>	8,5	45,0	32,0	20	1040	25
304405	G <sup>1</sup> / <sub>2</sub>	10,0	55,0	32,0	26	2200	10



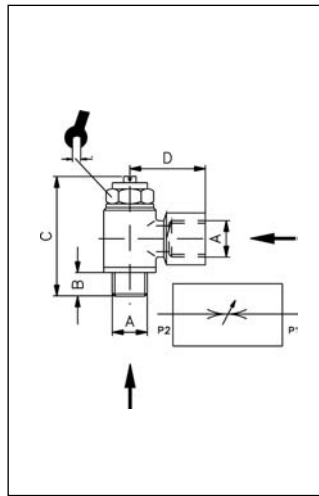
## Drosselrückschlagventil mit Innengewinde Typ B Abluft drosselbar

Unidirectional flow regulator type B, for cylinders with female thread

*Regolatore di flusso unidirezionale con anello femmina tipo B*

Régulateurs de débit banjo taraudé type B pour vérins

	A	B	C	D		NI/min*	
304501	M5	3,5	30,0	10,5	8	45	50
304502	G <sup>1/8</sup>	4,5	34,0	16,0	14	310	50
304503	G <sup>1/4</sup>	6,5	38,0	22,0	17	450	50
304504	G <sup>3/8</sup>	8,5	45,0	32,0	20	1040	25
304505	G <sup>1/2</sup>	10,0	55,0	32,0	26	2200	10



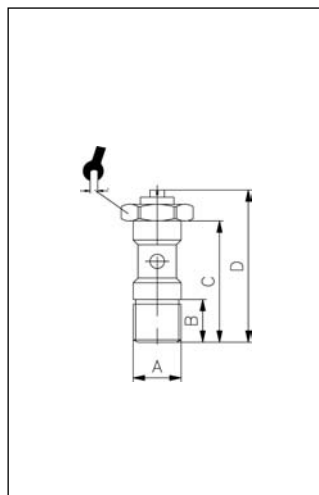
## Drosselrückschlagventil mit Innengewinde Typ C beidseitig drosselbar

Bidirectional flow regulator type C, with female thread

*Regolatore di flusso unidirezionale con anello femmina tipo C*

Régulateur de débit banjo taraudé bidirectionnel type C

	A	B	C	D		NI/min*	
304601	M5	3,5	30,0	10,5	8	45	50
304602	G <sup>1/8</sup>	4,5	34,0	16,0	14	310	50
304603	G <sup>1/4</sup>	6,5	38,0	22,0	17	450	50
304604	G <sup>3/8</sup>	8,5	45,0	32,0	20	1040	25
304605	G <sup>1/2</sup>	10,0	55,0	32,0	26	2200	10



## Drosselhohlschraube mit Schlitzschraube

Stem for flow regulator with slotted screw

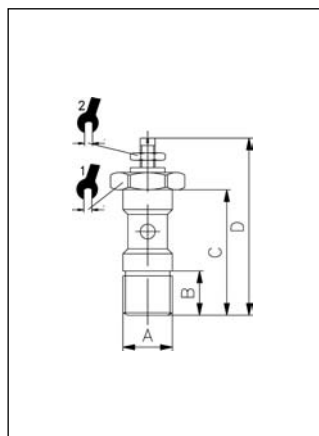
*Vite di regolazione con spacco*

Vis de réglage tourne vis

A=Zuluft  
B=Abluft  
C=Beidseitig

A=for valves  
B=for cylinders  
C=bidirectional

Typ	A	B	C	D		NI/min*		
304000	B	M5	4,5	16,5	26	8	45	50
304001	A	G <sup>1/8</sup>	9,5	25,5	34	14	310	50
304002	A	G <sup>1/4</sup>	12,0	28,0	38	17	810	50
304003	B	G <sup>1/8</sup>	9,5	25,5	34	14	310	50
304004	B	G <sup>1/4</sup>	12,0	28,0	38	17	810	50
304005	C	G <sup>1/8</sup>	9,5	25,5	34	14	310	50
304006	C	G <sup>1/4</sup>	12,0	28,0	38	17	810	50
304008	B	G <sup>3/8</sup>	14,1	29,8	45	19	1040	50
304009	A	G <sup>1/2</sup>	12,5	39,0	61	26	2200	50
304010	B	G <sup>1/2</sup>	12,5	39,0	61	26	2200	50



## Drosselhohlschraube mit Schlitzschraube und Kontermutter

Stem for flow regulator with nut and slotted screw

*Vite di regolazione con spacco e dado*

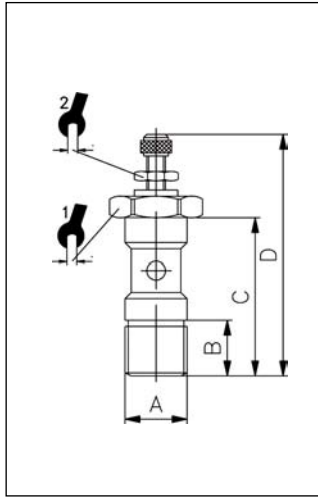
vis de réglage tourne vis+ contre ecrou

A=Zuluft  
B=Abluft  
C=Beidseitig

A=for valves  
B=for cylinders  
C=bidirectional

Typ	A	B	C	D			NI/min*		
304011	A	G <sup>1/8</sup>	9,5	25,5	43	14	9	310	50
304012	A	G <sup>1/4</sup>	12,0	28,0	45	17	9	810	50
304013	B	G <sup>1/8</sup>	9,5	25,5	43	14	9	310	50
304014	B	G <sup>1/4</sup>	12,0	28,0	45	17	9	810	50
304015	C	G <sup>1/8</sup>	9,5	25,5	43	14	9	310	50
304016	C	G <sup>1/4</sup>	12,0	28,0	45	17	9	810	50

\*Ermittlung der Durchflußwerte bei durchschnittlich 6bar

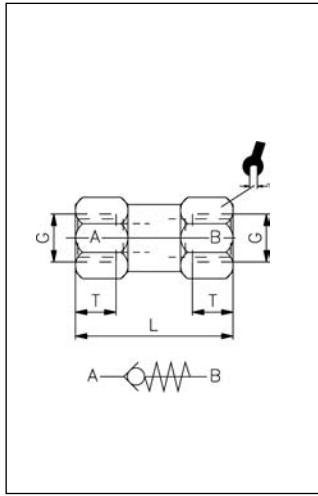


## Drosselhohlschraube mit Rändelknopf und Kontermutter

Stem for flow regulator with nut and regulating spindle  
*Vite di regolazione con dado zigrinato*  
 Vis de réglage moletée + contre ecrou

A=Zuluft      A=for valves  
 B=Abluft      B=for cylinders  
 C=Beidseitig      C=bidirectional

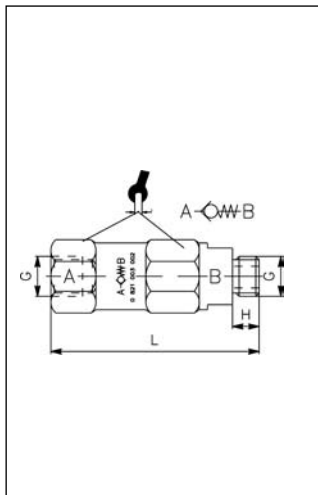
Typ	A	B	C	D	🔧	🔧	NI/min*	📦	
304021	A	G <sup>1/8</sup>	9,5	25,5	43	14	9	310	50
304022	A	G <sup>1/4</sup>	12,0	28,0	45	17	9	810	50
304023	B	G <sup>1/8</sup>	9,5	25,5	43	14	9	310	50
304024	B	G <sup>1/4</sup>	12,0	28,0	45	17	9	810	50
304025	C	G <sup>1/8</sup>	9,5	25,5	43	14	9	310	50
304026	C	G <sup>1/4</sup>	12,0	28,0	45	17	9	810	50



## Rückschlagventil Messing vernickelt Sechskant

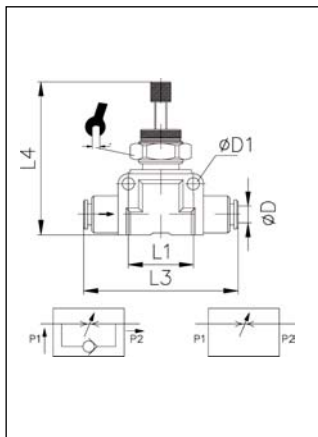
Non return valve brass  
*Valvola di non ritorno ottone*  
 Valve de non retour

	G	T	L	🔧	NI/min*	📦
304051	M5	5,5	26,5	8	190	50
304052	G <sup>1/8</sup>	8,5	35,5	13	920	50
304053	G <sup>1/4</sup>	11,0	42,5	17	1600	25
304054	G <sup>3/8</sup>	12,0	58,0	24	2430	10
304055	G <sup>1/2</sup>	15,0	64,0	24	3500	10



## Rückschlagventil Non return valve *Valvola di non ritorno* Valve de non retour

	A	H	L	🔧	NI/min*	📦
305101	G <sup>1/8</sup>	12	53	14	920	1
305103	G <sup>1/4</sup>	17	66	17	1600	1
305105	G <sup>1/2</sup>	20	81	27	3500	1



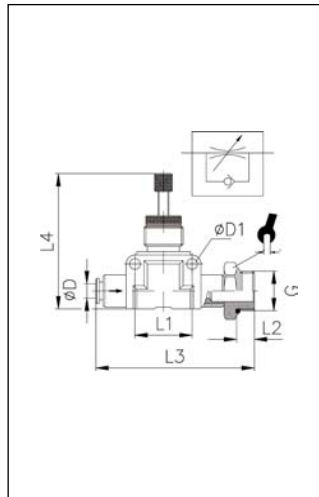
## Drosselrückschlagventil 041 Kunststoff-Steckanschss

Acetal Line Flow Regulator 041  
*Regolatore di flusso 041 con corpo in resina acetlica*  
 Régulateur de débit 041 avec corps plastique

	ØD	ØD1	L1	L3	L4	🔧	NI/min*	📦
340404	4	3,2	12	36	35	11	140	10
340606	6	3,2	15	45	45	14	260	10
340808	8	3,2	15	45	45	14	330	5
<b>beidseitig drosselbar</b>								
340414	4	3,2	12	36	35	11	140	10
340616	6	3,2	15	45	45	14	260	10
340818	8	3,2	15	45	45	14	360	5

\*Ermittlung der Durchflußwerte bei durchschnittlich 6bar





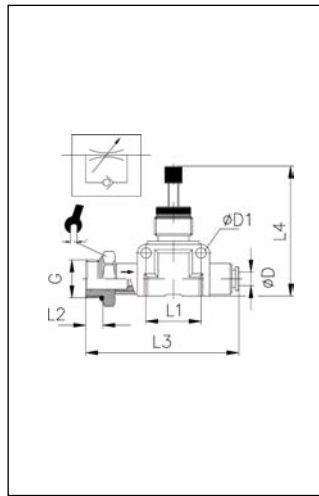
## Drosselrückschlagventil 042 Kunststoff Steckanschluss -Einschraub

Acetal Line Flow Regulator 042

*Regolatore di flusso 042 con corpo in resina acetaleica*

Régulateur de débit 042 avec corps plastique

	ØD	ØD1	G	L1	L2	L3	L4		NI/min*	
350400	4	3,2	M5	12	4,0	43	35	9	110	10
350401	4	3,2	G <sup>1</sup> / <sub>8</sub>	15	5,0	43	35	13	140	10
350402	6	3,2	G <sup>1</sup> / <sub>8</sub>	15	5,0	52	45	13	260	10
350403	6	3,2	G <sup>1</sup> / <sub>4</sub>	15	6,5	54	45	16	260	10
350404	8	3,2	G <sup>1</sup> / <sub>8</sub>	15	5,0	53	46	14	340	10
350405	8	3,2	G <sup>1</sup> / <sub>4</sub>	15	6,5	55	46	16	340	10



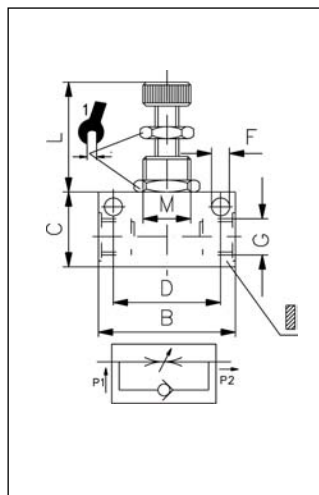
## Drosselrückschlagventil 043 Kunststoff Einschraub - Steckanschluss

Acetal Line Flow Regulator 043

*Regolatore di flusso 043 con corpo in resina acetaleica*

Régulateur de débit 043 avec corps plastique

	ØD	ØD1	G	L1	L2	L3	L4		NI/min*	
360400	4	3,2	M5	12	4,0	43	35	9	110	10
360401	4	3,2	G <sup>1</sup> / <sub>8</sub>	15	5,0	43	35	13	140	10
360402	6	3,2	G <sup>1</sup> / <sub>8</sub>	15	5,0	52	45	13	260	10
360403	6	3,2	G <sup>1</sup> / <sub>4</sub>	15	6,5	54	45	16	260	10
360404	8	3,2	G <sup>1</sup> / <sub>8</sub>	15	5,0	53	46	14	340	10
360405	8	3,2	G <sup>1</sup> / <sub>4</sub>	15	6,5	55	46	16	340	10



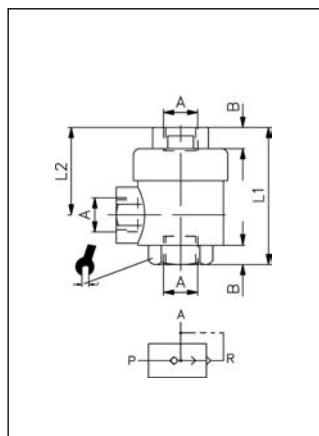
## Drosselrückschlagventil

Unidirectional flow regulator

*Regolatore di flusso unidirezionale*

Régulateur de débit unidirectionnel

	G	B	C	D	L	ØF	M			NI/min*	
304030	M5	26	16	18,0	34-39	4,5	M10x0,75	12	12	250	10
304031	G <sup>1</sup> / <sub>8</sub>	35	22	24,7	48-56	4,5	M12x0,75	20	15	450	10
304032	G <sup>1</sup> / <sub>4</sub>	46	30	35,0	56-64	6,5	M12x0,75	20	15	600	5
304033	G <sup>3</sup> / <sub>8</sub>	50	30	35,0	68-73	6,5	M18x1	25	22	1100	5
304034	G <sup>1</sup> / <sub>2</sub>	60	40	44,0	76-83	6,5	M18x1	25	22	1400	1



## Drosselrückschlagventil 042 Kunststoff Steckanschluss -Einschraub

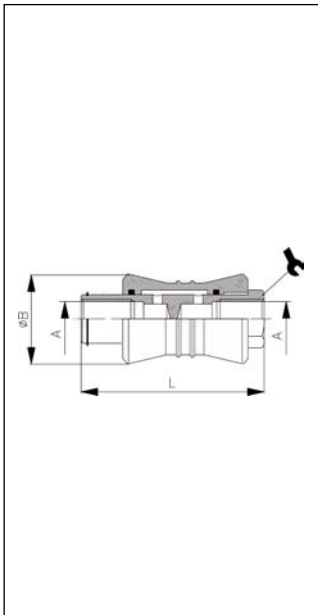
Acetal Line Flow Regulator 042

*Regolatore di flusso 042 con corpo in resina acetaleica*

Régulateur de débit 042 avec corps plastique

	A	B	L1	L2		P-A NI/min*	A-R NI/min*	
60500	M5	5,0	25,0	17	10	-	-	25
60501	G <sup>1</sup> / <sub>8</sub>	8,0	42,0	28	14	680	1100	25
60502	G <sup>1</sup> / <sub>4</sub>	11,0	53,0	34	19	1200	2100	25
60504	G <sup>3</sup> / <sub>8</sub>	11,5	60,5	40	22	2300	4900	10
60503	G <sup>1</sup> / <sub>2</sub>	14,0	70,0	44	26	3400	6100	10
60505	G <sup>3</sup> / <sub>4</sub>	19,0	87,0	37	32	4000	13900	5
60506	G1	16,0	108,0	70	46	6800	15600	1

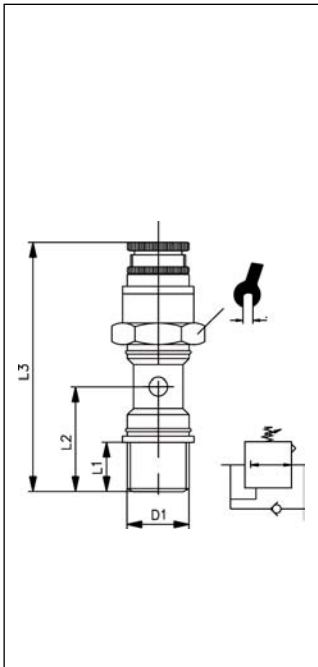
\*Ermittlung der Durchflußwerte bei durchschnittlich 6bar



## Handschiebeventil

Slide valve  
Valvola a manicotto  
Valve coulissante

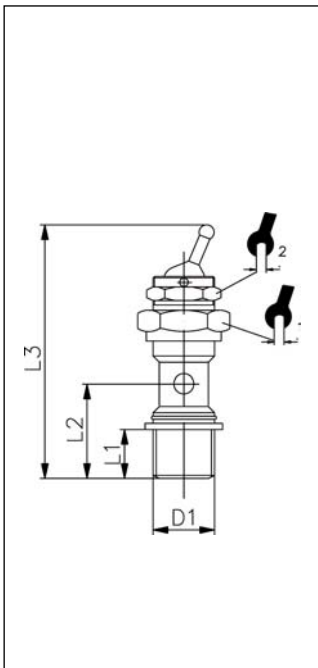
	A	ØB	L		P-A NI/min*	A-R NI/min*	
60602	G <sup>1</sup> / <sub>8</sub>	25	48	14	700	1280	10
60603	G <sup>1</sup> / <sub>4</sub>	30	58	17	1500	2220	5
60604	G <sup>3</sup> / <sub>8</sub>	35	68	22	2200	3200	5
60605	G <sup>1</sup> / <sub>2</sub>	40	80	27	3400	7500	1



## Druckregler (Energiesparventil)

Pressure control valve  
Regolatore di pressione  
R ducteur de pression

	D1	L1	L2	L3 <sub>max</sub>		NI/min*	
304632	G <sup>1</sup> / <sub>8</sub>	6	15,5	56	15	580	10
304633	G <sup>1</sup> / <sub>4</sub>	8	18,5	63	17	750	10



## Kipphebelventil

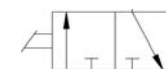
Pneumatic switch  
Interruttore pneumatico  
Vanne levier basculant

## 2-Wege-Ventil / 2-ways-valve

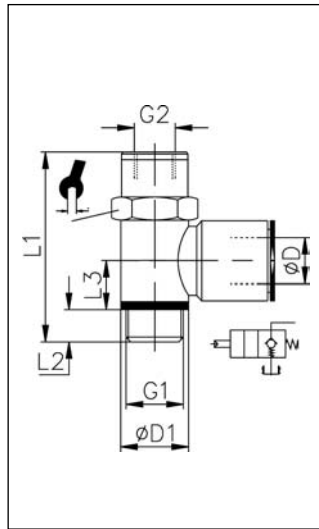


	D1	L1	L2	L3			NI/min*	
304173	G <sup>1</sup> / <sub>8</sub>	6	16	55	14	15	580	10
304174	G <sup>1</sup> / <sub>4</sub>	8	19	60	17	15	750	10

## 3-Wege-Ventil / 3-ways-valve



	D1	L1	L2	L3			NI/min*	
304073	G <sup>1</sup> / <sub>8</sub>	6	16	55	14	15	580	10
304074	G <sup>1</sup> / <sub>4</sub>	8	19	60	17	15	750	10



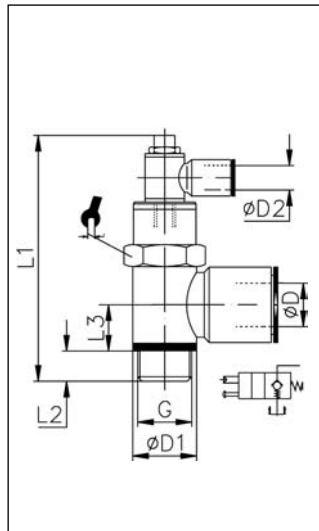
## ipso 030

**Rückschlagventil**  
**pneumatisch entsperrbar**  
Bidirectional flow regulator

*Regolatore di flusso direzionale*

Régulateur de débit de deux directions

	ØD	G1	ØD1	G2	L1	L2	L3		
204802	4	G <sup>1</sup> / <sub>8</sub>	14,0	M5	42,0	6,0	9,5	13	10
204805	6	G <sup>1</sup> / <sub>8</sub>	14,0	M5	42,0	6,0	9,5	12	10
204806	6	G <sup>1</sup> / <sub>4</sub>	18,0	M5	47,0	8,0	10,5	17	10
204807	8	G <sup>1</sup> / <sub>8</sub>	14,0	M5	42,0	6,0	9,5	13	10
204808	8	G <sup>1</sup> / <sub>4</sub>	18,0	M5	47,0	8,0	10,5	17	10
204809	8	G <sup>3</sup> / <sub>8</sub>	21,0	G <sup>1</sup> / <sub>8</sub>	53,5	9,0	12,0	20	10
204810	10	G <sup>1</sup> / <sub>4</sub>	18,0	M5	47,0	8,0	10,5	17	10
204811	10	G <sup>3</sup> / <sub>8</sub>	21,0	G <sup>1</sup> / <sub>8</sub>	53,5	9,0	12,0	20	10
204814	12	G <sup>1</sup> / <sub>4</sub>	18,0	M5	47,0	8,0	10,5	17	10
204812	12	G <sup>3</sup> / <sub>8</sub>	21,0	G <sup>1</sup> / <sub>8</sub>	53,5	9,0	12,0	20	10



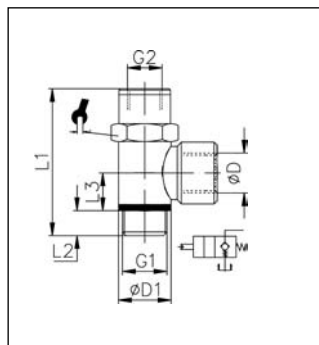
## ipso 049

**Rückschlagventil entsperrbar**  
**pneumatisch betätigt**  
Bidirectional flow regulator

*Regolatore di flusso direzionale*

Régulateur de débit de deux directions

	ØD	G1	ØD1	G2	L1	L2	L3		
204902	4	G <sup>1</sup> / <sub>8</sub>	14,0	M5	42,0	6,0	9,5	13	10
204905	6	G <sup>1</sup> / <sub>8</sub>	14,0	M5	42,0	6,0	9,5	12	10
204906	6	G <sup>1</sup> / <sub>4</sub>	18,0	M5	47,0	8,0	10,5	17	10
204907	8	G <sup>1</sup> / <sub>8</sub>	14,0	M5	42,0	6,0	9,5	13	10
204908	8	G <sup>1</sup> / <sub>4</sub>	18,0	M5	47,0	8,0	10,5	17	10
204909	8	G <sup>3</sup> / <sub>8</sub>	21,0	G <sup>1</sup> / <sub>8</sub>	53,5	9,0	12,0	20	10
204910	10	G <sup>1</sup> / <sub>4</sub>	18,0	M5	47,0	8,0	10,5	17	10
204911	10	G <sup>3</sup> / <sub>8</sub>	21,0	G <sup>1</sup> / <sub>8</sub>	53,5	9,0	12,0	20	10
204914	12	G <sup>1</sup> / <sub>4</sub>	18,0	M5	47,0	8,0	10,5	17	10
204912	12	G <sup>3</sup> / <sub>8</sub>	21,0	G <sup>1</sup> / <sub>8</sub>	53,5	9,0	12,0	20	10

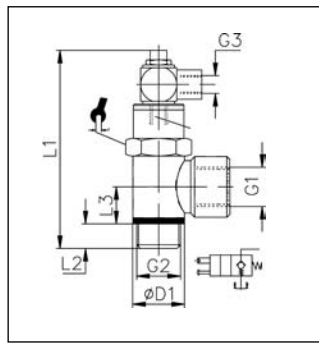


**Rückschlagventil**  
**pneumatisch entsperrbar**  
Bidirectional flow regulator

*Regolatore di flusso direzionale*

Régulateur de débit de deux directions

	ØD	G1	ØD1	G2	L1	L2	L3		
304622	G <sup>1</sup> / <sub>8</sub>	G <sup>1</sup> / <sub>8</sub>	15,0	M5	42,0	6,0	9,5	13	10
304623	G <sup>1</sup> / <sub>8</sub>	G <sup>1</sup> / <sub>8</sub>	18,0	M5	47,0	8,0	10,5	17	10
304624	G <sup>1</sup> / <sub>4</sub>	G <sup>1</sup> / <sub>4</sub>	22,0	G <sup>1</sup> / <sub>8</sub>	53,5	9,0	12,0	20	10
304625	G <sup>1</sup> / <sub>8</sub>	G <sup>1</sup> / <sub>8</sub>	27,0	G <sup>1</sup> / <sub>8</sub>	60,0	10,0	14,5	25	10



**Rückschlagventil**  
**pneumatisch entsperrbar**  
Bidirectional flow regulator

*Regolatore di flusso direzionale*

Régulateur de débit de deux directions

	ØD	G1	ØD1	G2	L1	L2	L3		
304612	G <sup>1</sup> / <sub>8</sub>	G <sup>1</sup> / <sub>8</sub>	15,0	M5	62,0	6,0	9,5	13	10
304613	G <sup>1</sup> / <sub>8</sub>	G <sup>1</sup> / <sub>8</sub>	18,0	M5	67,0	8,0	10,5	17	10
304614	G <sup>1</sup> / <sub>4</sub>	G <sup>1</sup> / <sub>4</sub>	22,0	G <sup>1</sup> / <sub>8</sub>	76,5	9,0	12,0	20	10
304615	G <sup>1</sup> / <sub>8</sub>	G <sup>1</sup> / <sub>8</sub>	27,0	G <sup>1</sup> / <sub>8</sub>	83,0	10,0	14,5	25	10

G	Durchfluß in NL/min. bei 6 bar	Steuerdruck in Abhängigkeit zum Arbeitsdruck				
		1,5	2	3	3,5	4
G <sup>1</sup> / <sub>8</sub>	400	1,5	2	3	3,5	4
G <sup>1</sup> / <sub>4</sub>	850	1,5	2	3	3,5	4
G <sup>3</sup> / <sub>8</sub>	1250	1,5	2	3	3,5	4
G <sup>1</sup> / <sub>2</sub>	1800	1,5	2	3	3,5	4
		2bar	4bar	6bar	8bar	10bar

**Medium: gefilterte und geölte Luft**  
**Betriebsdruck: 2bar bis 10bar**  
**Betriebstemperatur: -5°C bis +70°C**