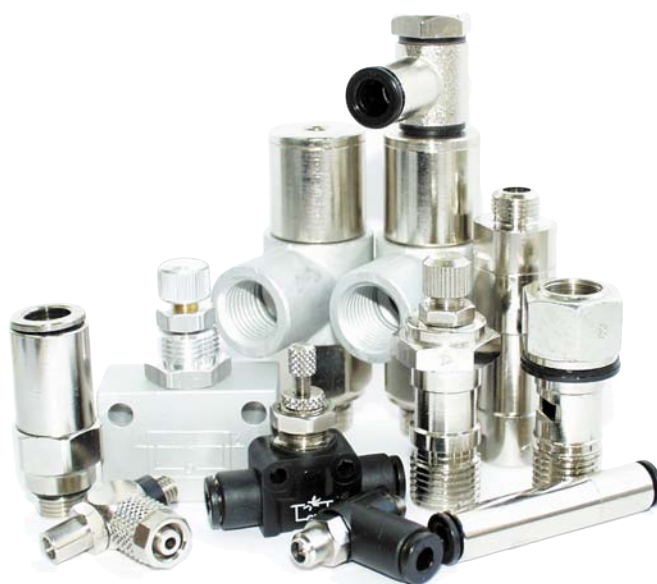


# Funktionsverschraubungen

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

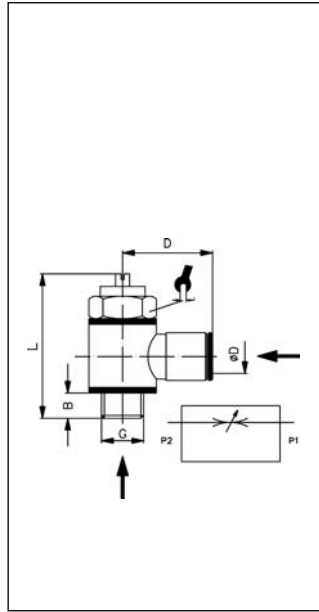
Ipsos 032,033

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

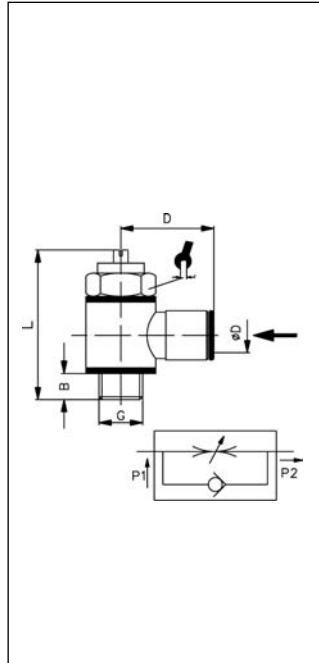
#### Typ C beidseitig drosselbar

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

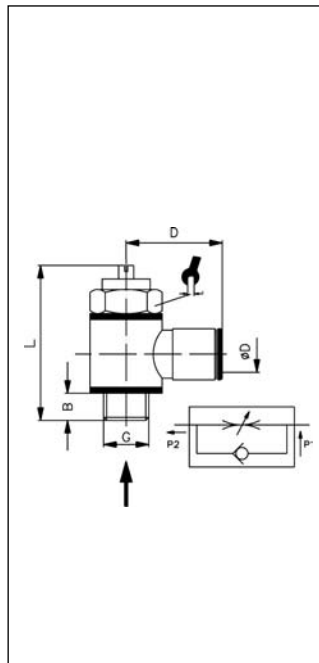
#### Typ A Zuluft drosselbar

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

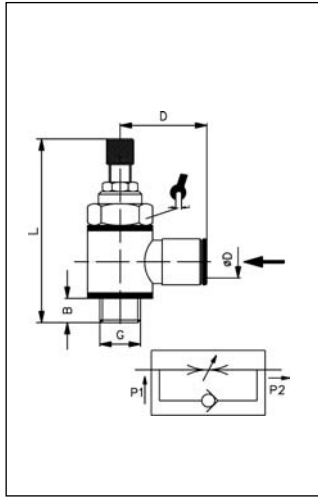
Unidirectional flow regulator type B for cylinders

*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

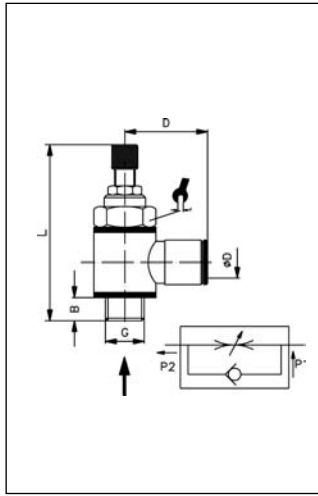


## ipso 039

**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

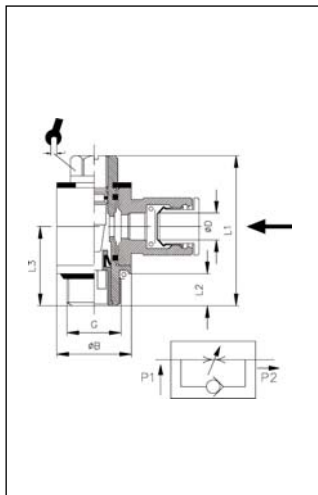


## ipso 040

**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

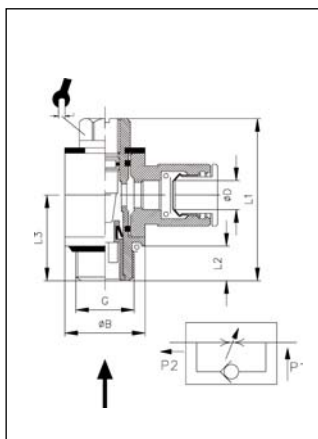


## ipso 045

**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



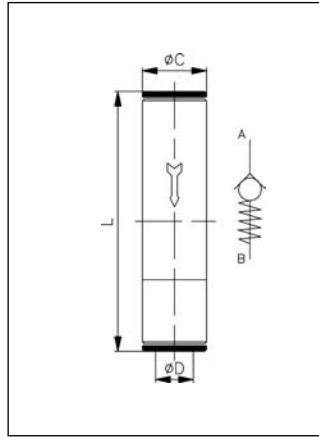
## ipso 046

**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

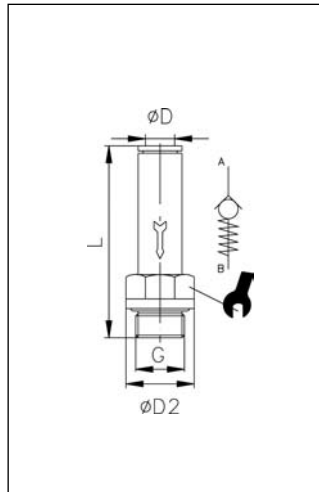
### Rückschlagverbinder

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

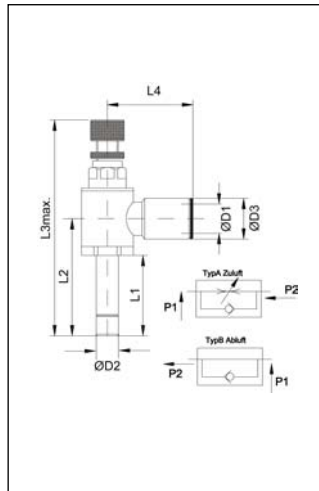
### Rückschlagverschraubung

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

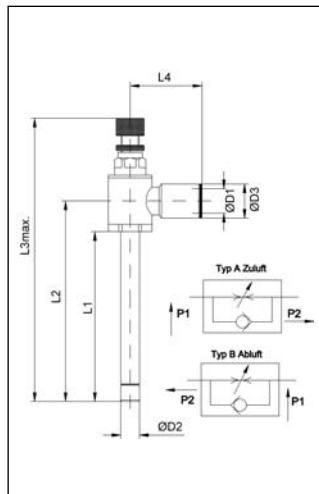
### Drosselrückschlagventil steckbar

Unidirectional flow regulator

Regolatore di flusso unidirezionale

Régulateur de débit unidirectionnel

	ØD1	ØD2	ØD3	L1	L2	L3	L4	NI/min*	■
<b>ipso 050</b>									
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
<b>ipso 051</b>									
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

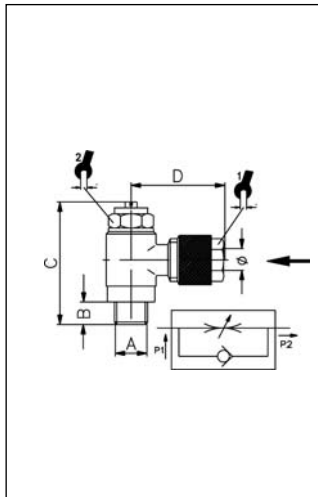
Unidirectional flow regulator

Regolatore di flusso unidirezionale

Régulateur de débit unidirectionnel

	ØD1	ØD2	ØD3	L1	L2	L3	L4	NI/min*	■
<b>ipso 050/L</b>									
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
<b>ipso 051</b>									
<b>ipso 051/L</b>									
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

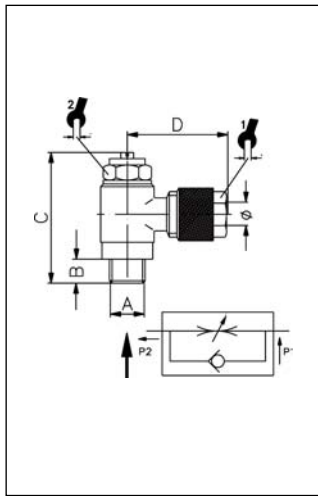
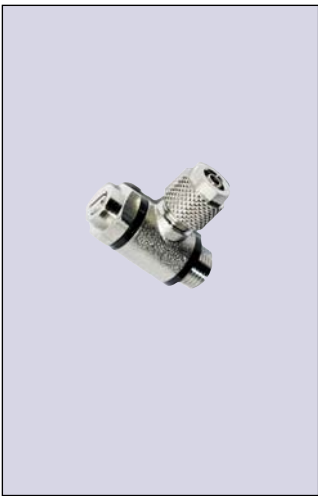
### Typ A Zuluft drosselbar

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>1/8</sup>	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>1/8</sup>	5,5	34	23,0	10	14	310	50
304102	6/4	G <sup>1/4</sup>	6,0	38	26,0	10	17	420	50
304103	8/6	G <sup>1/8</sup>	5,5	34	23,0	12	14	310	50
304104	8/6	G <sup>1/4</sup>	6,0	38	26,0	12	17	420	50



## Drosselrückschlagventil mit Ringstück

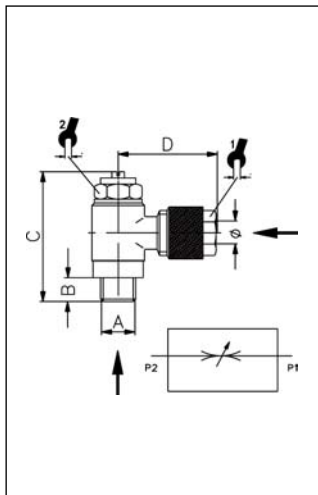
### Typ B Abluft drosselbar

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>1/8</sup>	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>1/8</sup>	5,5	34	23,0	10	14	310	50
304202	6/4	G <sup>1/4</sup>	6,0	38	26,0	10	17	420	50
304203	8/6	G <sup>1/8</sup>	5,5	34	23,0	12	14	310	50
304204	8/6	G <sup>1/4</sup>	6,0	38	26,0	12	17	420	50
304207	8/6	G <sup>3/8</sup>	7,0	52	26,0	12	20	500	50



## Drosselhohlschraube mit Ringstück

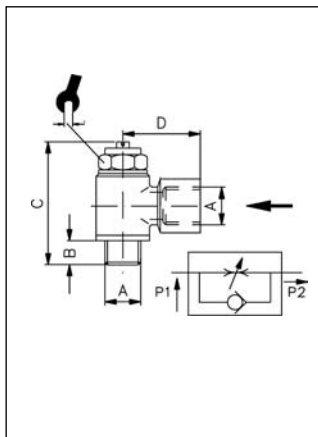
### Typ C beidseitig drosselbar

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>1/8</sup>	5,5	34	23,0	10	14	45	50
304302	6/4	G <sup>1/4</sup>	6,0	38	26,0	10	17	310	50
304303	8/6	G <sup>1/8</sup>	5,5	34	23,0	12	14	420	50
304304	8/6	G <sup>1/4</sup>	6,0	38	26,0	12	17	310	50



## Drosselrückschlagventil mit Innengewinde

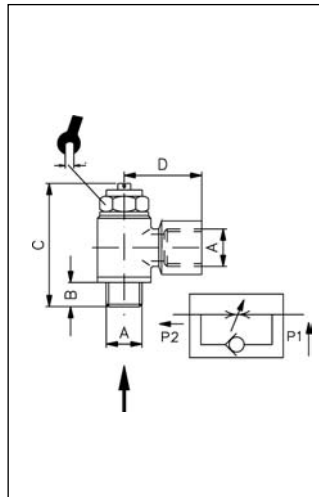
### Typ A Zuluft drosselbar

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>1/8</sup>	4,5	34,0	16,0	14	310	50
304403	G <sup>1/4</sup>	6,5	38,0	22,0	17	450	50
304404	G <sup>3/8</sup>	8,5	45,0	32,0	20	1040	25
304405	G <sup>1/2</sup>	10,0	55,0	32,0	26	2200	10



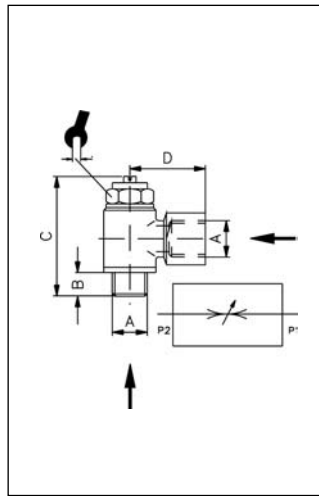
## Drosselrückschlagventil mit Innengewinde Typ B Abluft drosselbar

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



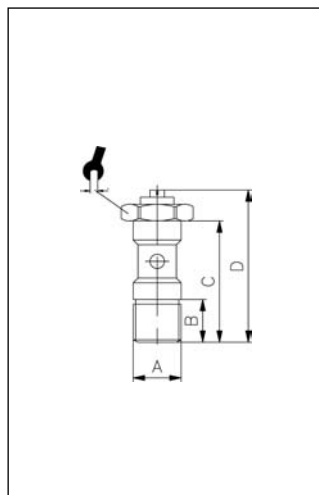
## Drosselrückschlagventil mit Innengewinde Typ C beidseitig drosselbar

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

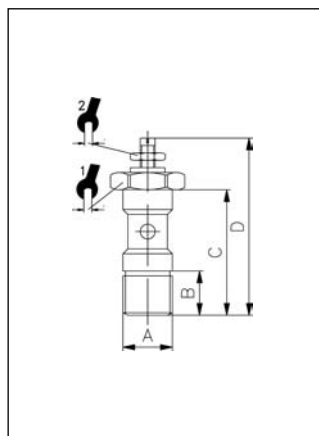
*Vite di regolazione con spacco*

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

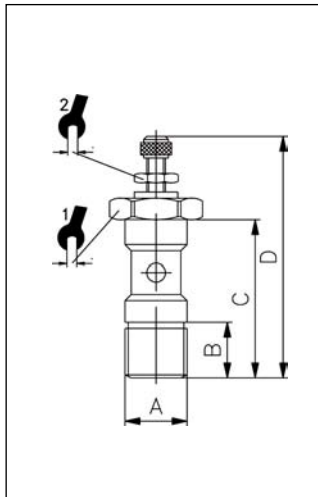
*Vite di regolazione con spacco e dado*

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

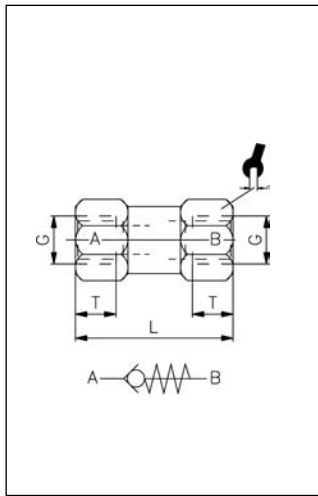


## Drosselhohlschraube mit Rändelknopf und Kontermutter

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

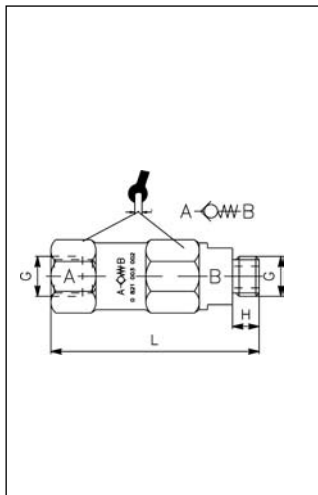
Typ	A	B	C	D	🔧	🔧	NI/min*	📦
304021	A G <sup>1/8</sup>	9,5	25,5	43	14	9	310	50
304022	A G <sup>1/4</sup>	12,0	28,0	45	17	9	810	50
304023	B G <sup>1/8</sup>	9,5	25,5	43	14	9	310	50
304024	B G <sup>1/4</sup>	12,0	28,0	45	17	9	810	50
304025	C G <sup>1/8</sup>	9,5	25,5	43	14	9	310	50
304026	C G <sup>1/4</sup>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



## Rückschlagventil Messing vernickelt Sechskant

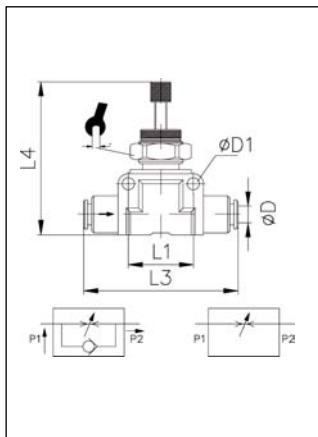
Non return valve brass  
*Valvola di non ritorno ottone*  
 Valve de non retour

	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

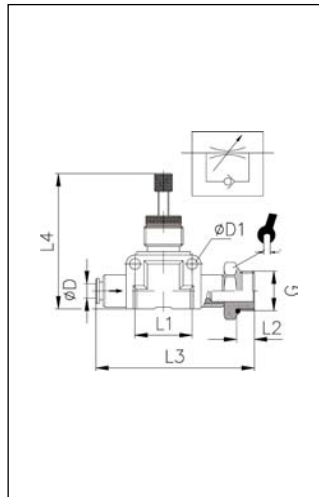


## Drosselrückschlagventil 041 Kunststoff-Steckanschss

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



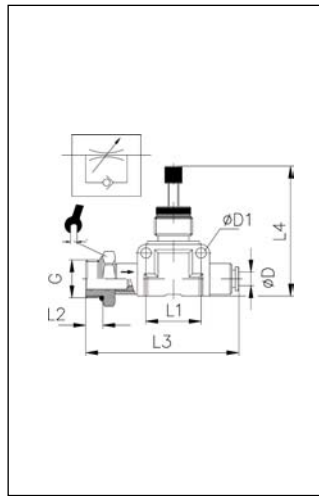
## Drosselrückschlagventil 042 Kunststoff Steckanschluss -Einschraub

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



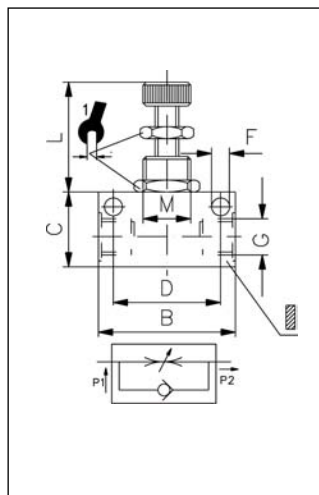
## Drosselrückschlagventil 043 Kunststoff Einschraub - Steckanschluss

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



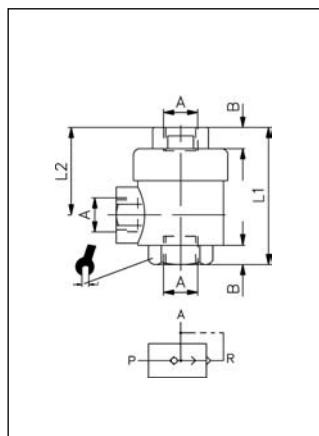
## Drosselrückschlagventil

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

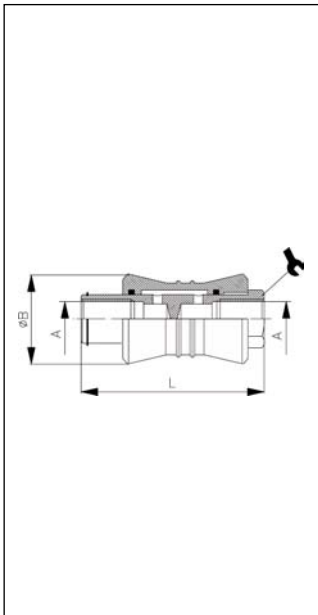
Acetal Line Flow Regulator 042

*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

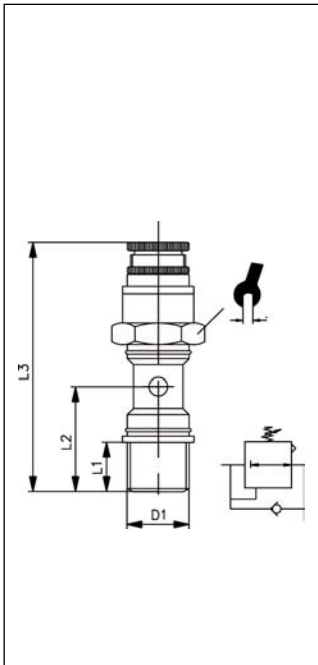
\*Ermittlung der Durchflußwerte bei durchschnittlich 6bar



## Handschiebeventil

Slide valve  
Valvola a manicotto  
Valve coulissante

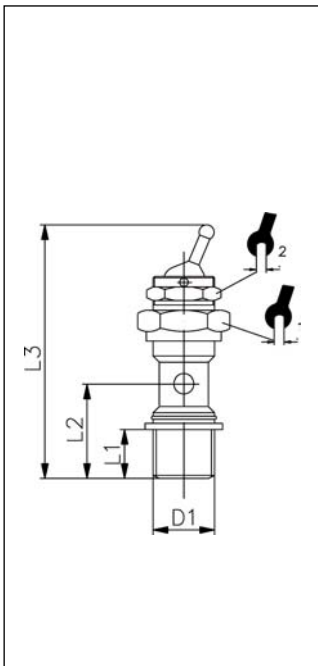
	A	ØB	L		P-A NI/min*	A-R NI/min*	
60602	G <sup>1</sup> / <sub>8</sub>	25	48	14	700	1280	10
60603	G <sup>1</sup> / <sub>4</sub>	30	58	17	1500	2220	5
60604	G <sup>3</sup> / <sub>8</sub>	35	68	22	2200	3200	5
60605	G <sup>1</sup> / <sub>2</sub>	40	80	27	3400	7500	1



## 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

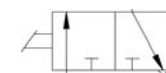
Pneumatic switch  
Interruttore pneumatico  
Vanne levier basculant

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

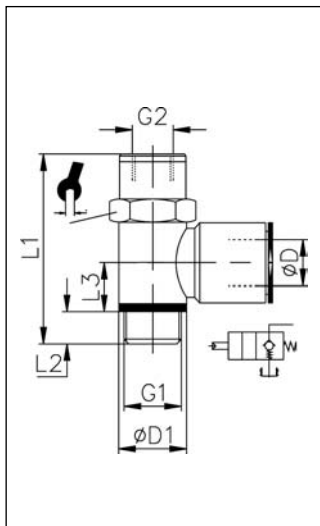


	D1	L1	L2	L3			NI/min*	
304173	G <sup>1</sup> / <sub>8</sub>	6	16	55	14	15	580	10
304174	G <sup>1</sup> / <sub>4</sub>	8	19	60	17	15	750	10

## 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



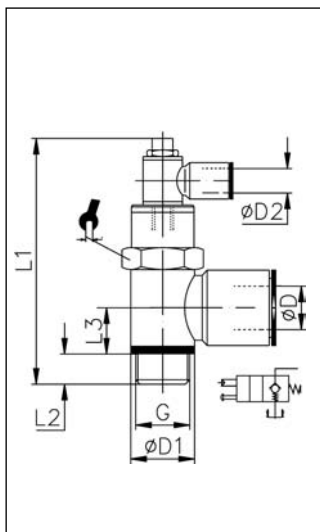
## ipso 030

**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



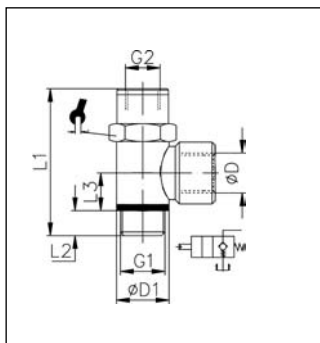
## ipso 049

**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

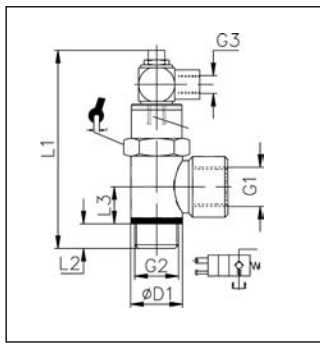


**Rückschlagventil**  
**pneumatisch entsperrbar**  
Bidirectional flow regulator

*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**