

Air Preparation Units



HOERBIGER
ORIGA

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Air Preparation Units

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Injection Lubricator Accessories

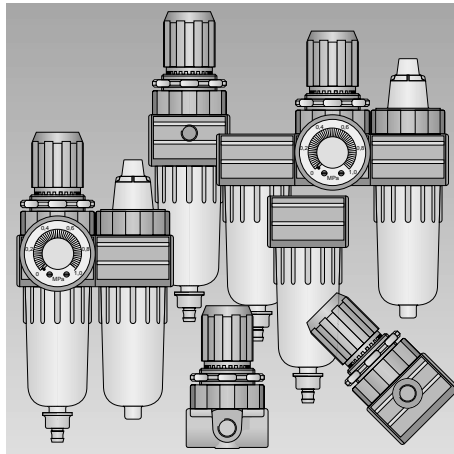
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Centralized Lubrication System

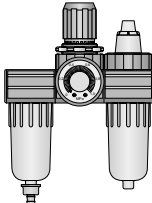
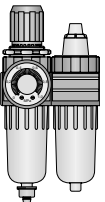
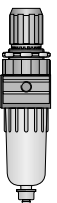
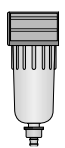

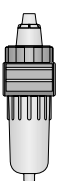
Series airfit magnum, G1 - G2	5.92.002E
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**PNEUMATIC
GROUP**

**AIR PREPARATION UNITS
G1/8, G1/4
SERIES
airfitlight**



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		Port size	Recommended flow (l/min)*	Type	Data Sheet No.
Air preparation units		G1/8	300	MFRLS-06	5.09.002E
		G1/4	550	MFRLS-08	
		G1/8	300	MKLS-06	5.09.003E
		G1/4	550	MKLS-08	
Filter-regulator		G1/8	300	MKS-06	5.09.004E
		G1/4	550	MKS-08	
Filter-water-separator		G1/8	300	MFS-06	5.09.005E
		G1/4	550	MFS-08	
Pressure regulating valve		G1/8	300	MRP-06	5.09.006E
		G1/4	550	MRP-08	
Oil mist lubricator		G1/8	300	MLS-06	5.09.007E
		G1/4	550	MLS-08	

* For max. flows see diagrams on single data sheet.
Max. flow is much higher than the given recommended flow.

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The right to introduce technical modifications is reserved

Table of Contents see 5.00.001E

Data Sheet No. 5.09.001E-2

A1P430E00EAA00X

The right to introduce technical modifications is reserved

Characteristics		Pressures quoted as gauge pressure	
System		Air preparation unit comprising filter-water-separator, pressure regulating valve and oil mist lubricator *)	
Type		MFRLS-06	MFRLS-08
Port size		G1/8	G1/4
Max. condensate capacity	cm ³	12	
Condensate drainage		Manual or semiautomatic with pressure relief	
Max. oil capacity	cm ³	35	
Oil refilling		Manual	
Installation		Vertical	
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	0 +50 at 10 bar
Weight (mass)	kg	0.40	
Pneumatic Characteristic			
Operating pressure range - inlet pressure	$p_{1\min}$	bar	0
	$p_{1\max}$	bar	10
Operating pressure range - outlet pressure	$p_{2\min}$	bar	0.5 on request
	$p_{2\max}$	bar	0.5 0.5 ³⁾ 3 4
Recommended flow ¹⁾	Q_n	l/min	300
		m ³ /h	18
Max. flow ²⁾	Q_{\max}	l/min	440
		m ³ /h	27
Degree of moisture separation at recommended flow	η	%	>90

¹⁾ at 6.3 bar and 25 m/s

²⁾ at $p_1 = 10$ bar and $p_2 = 6.3$ bar, $\Delta p = 1$ bar

For further characteristics see 5.09.005E, 5.09.006E, 5.09.007E

³⁾ By the use of special springs, the outlet pressure can be precisely regulated in the specified p_2 range

*) Use only recommended oils with viscosity VG32 to ISO 3448 (32 mm²/s at 40°C) or HOERBIGER special oil, Order No.: KY 8766 (Cat.-No. 5.61.050E)

Air Preparation Unit

G1/8, G1/4

Degree of moisture separation >90%

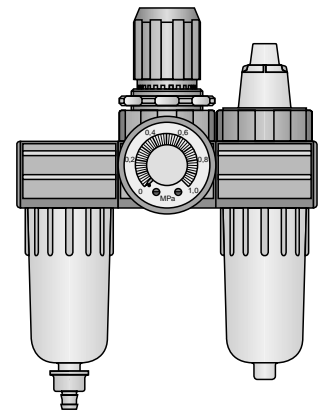
airfit light

MFRLS



Air preparation unit comprising:
 Filter-water-separator
 Pressure regulating valve
 Oil mist lubricator
 Gauge
 Mounting bracket
 Mounting ring

- mounting ring included
- recyclable technical polymer
- impact resistant glassfibre reinforced polymer housing (UV resistant) with metal thread inserts
- version with NPTF thread



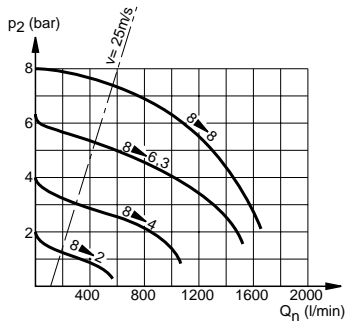
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For single units see 5.09.004E-5.09.008E
 For product group list see 5.09.001E

Data Sheet No. 5.09.002E-1

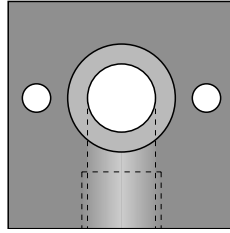
Flow Characteristics

Type: MFRLS-08



Accessories

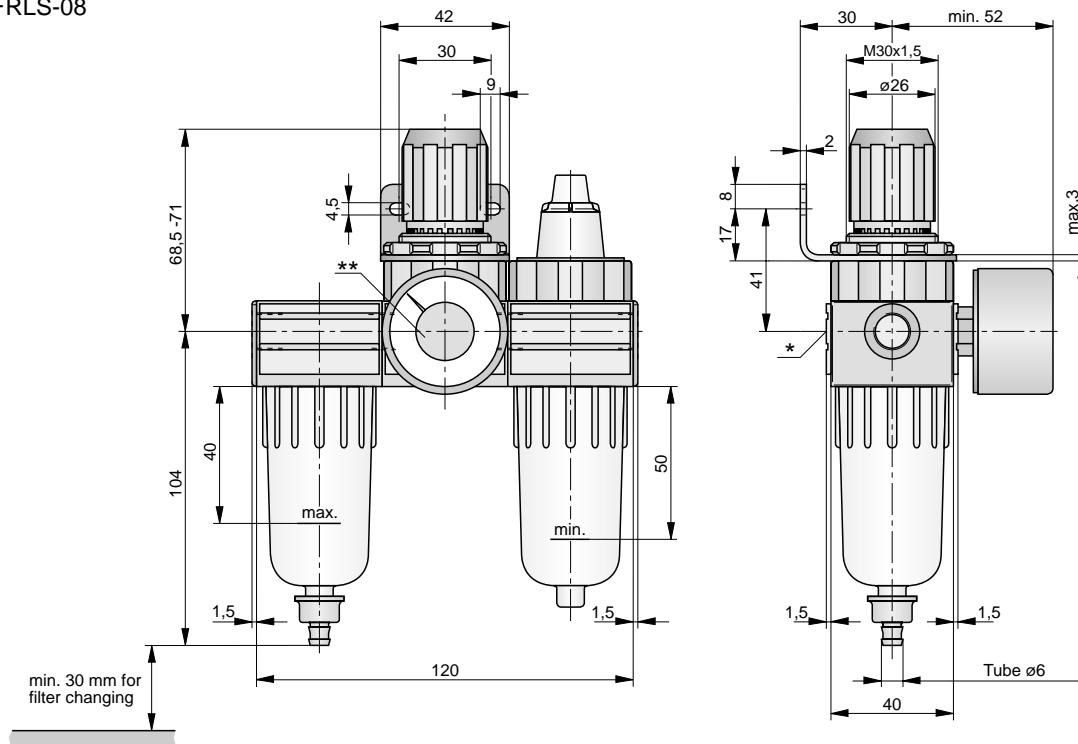
Porting block kit G1/4
to provide unlubricated air
e.g. for air gun
for ruther details see 5.21.002E



Order No.: PL 16031

Dimensions (mm)

Type: MFRLS-08



* On delivery the plug screw is not assembled.

** Two opposite gauge ports G1/8

Order Instructions

Description	Port size	Type	Order No.
Basic model	G1/8	MFRLS-06	PB 40849-100
Basic model	G1/4	MFRLS-08	PB 40949-100
With filter element 5 μm	G1/8	MFRLS-06-5	PB 40849-110
With filter element 5 μm	G1/4	MFRLS-08-5	PB 40949-110
With semiautomatic drainage	G1/8	MFRLS-06-H	PB 40849-104
With semiautomatic drainage	G1/4	MFRLS-08-H	PB 40949-104

Accessories

Description	Order No.
Porting block kit	PL 16031
Regulator spring for operating pressure 3 bar	PL 15876
Regulator spring for operating pressure 4 bar	PL 16776
Mounting ring for sheet thickness 6 mm (hole \varnothing 36.5 - 38 mm)	PL 16198
Mounting ring for sheet thickness 8 mm (hole \varnothing 36.5 - 38 mm)	PL 15925

Characteristics		Pressures quoted as gauge pressure			
System			Air preparation unit comprising filter-regulator and oil mist lubricator *)		
Type			MKLS-06	MKLS-08	
Port size			G1/8	G1/4	
Max. condensate capacity		cm ³	12		
Condensate drainage			Manual or semiautomatic (pressure relief)		
Max. oil capacity		cm ³	35		
Oil refilling			Manual		
Installation			Vertical		
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	0 +50 at 10 bar		
Weight (mass)		kg	0.32		
Pneumatic Characteristic					
Operating pressure range - inlet pressure	$p_{1\min}$ $p_{1\max}$	bar bar	0 10		
Operating pressure range - outlet pressure	$p_{2\min}$ $p_{2\max}$	bar bar	0.5 8	on request	0.5 3 0.5 ³⁾ 4
Recommended flow ¹⁾	Q_n	l/min m ³ /h	300 18	550 33	
Max. flow ²⁾	Q_{\max}	l/min m ³ /h	400 24	580 35	
Degree of moisture separation at recommended flow	η	%	>90		

¹⁾ at 6.3 bar and 25 m/s

²⁾ at $p_1 = 10$ bar and $p_2 = 6.3$ bar, $\Delta p = 1$ bar
For further characteristics see 5.09.004E, 5.09.007E

³⁾ By the use of special springs, the outlet pressure can be precisely regulated in the specified p_2 range

*) Use only recommended oils with viscosity VG32 to ISO 3448 (32 mm²/s at 40°C) or HOERBIGER special oil, Order No.: KY 8766 (Cat.-No. 5.61.050E)

Air Preparation Unit

G1/8, G1/4

Degree of moisture separation >90%

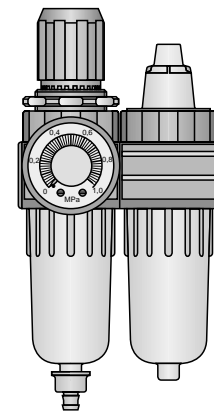
airfit light

MKLS



Air preparation unit comprising:
Filter-regulator
Oil mist lubricator
Gauge
Mounting bracket
Mounting ring

- mounting ring included
- recyclable technical polymer
- impact resistant glassfibre reinforced polymer housing (UV resistant) with metal thread inserts
- version with NPTF thread

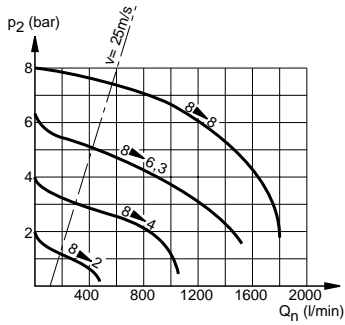


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For single units see 5.09.004E-5.09.008E
For product group list see 5.09.001E

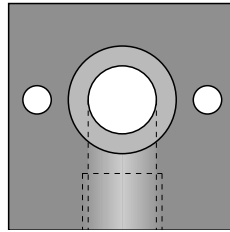
Flow Characteristics

Type: MKLS-08



Accessories

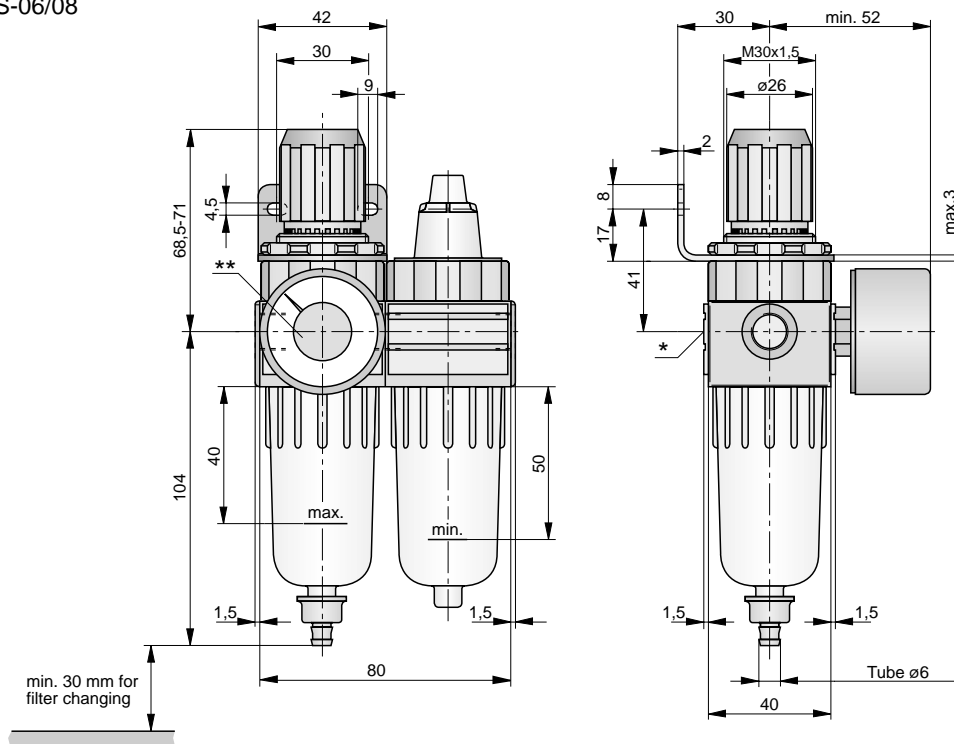
Porting block kit G1/4
to provide unlubricated air
e.g. for air gun
for ruther details see 5.21.002E



Order No.: PL 16031

Dimensions (mm)

Type: MKLS-06/08



* On delivery the plug screw is not assembled.

** Two opposite gauge ports G1/8

Order Instructions

Description	Port size	Type	Order No.
Basic model	G1/8	MKLS-06	PB 40449-100
Basic model	G1/4	MKLS-08	PB 40549-100
With filter element 5 µm	G1/8	MKLS-06-5	PB 40449-109
With filter element 5 µm	G1/4	MKLS-08-5	PB 40549-109
With semiautomatic drainage	G1/8	MKLS-06-H	PB 40449-104
With semiautomatic drainage	G1/4	MKLS-08-H	PB 40549-104

Accessories

Description	Order No.
Porting block kit	PL 16031
Regulator spring for operating pressure 3 bar	PL 15876
Regulator spring for operating pressure 4 bar	PL 16776
Mounting ring for sheet thickness 6 mm (hole Ø 36.5 - 38 mm)	PL 16198
Mounting ring for sheet thickness 8 mm (hole Ø 36.5 - 38 mm)	PL 15925

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The right to introduce technical modifications is reserved

Characteristics		Pressures quoted as gauge pressure	
System		Cyclone system with filter element, combined with piston-type pressure regulating valve (spring loaded) with secondary pressure relief	
Type		MKS-06	MKS-08
Port size		G1/8	G1/4
Pore size of filter element	μm	30 (white) or 5 (yellow)	
Max. condensate capacity	cm^3	12	
Condensate drainage		Manual or semiautomatic (pressure relief)	
Installation		Vertical	
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	$^{\circ}\text{C}$	0 +50 at 10 bar
Weight (mass)		kg	0.12
Pneumatic Characteristic			
Operating pressure range - inlet pressure	$p_{1\min}$ $p_{1\max}$	bar bar	0 10
Operating pressure range - outlet pressure	$p_{2\min}$ $p_{2\max}$	bar bar	0.5 on request 0.5 0.5 ³⁾ 8 3 4
Min. pressure difference	$p_1 - p_2$	bar	0.2
Hysteresis $p_1=10/p_2=0$ Hysteresis $p_1=10/p_2=8$		bar bar	1.6 0.6
Recommended flow ¹⁾	Q_n	l/min m^3/h	300 18
Max. flow ²⁾	Q_{\max}	l/min m^3/h	550 33
Degree of moisture separation at recommended flow	η	%	>90

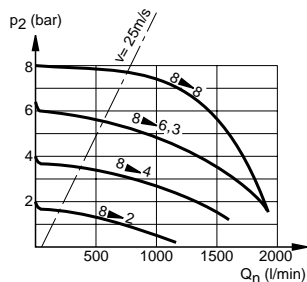
¹⁾ at 6.3 bar and 25 m/s

²⁾ at $p_1 = 10$ bar and $p_2 = 6.3$ bar, $\Delta p = 1$ bar

³⁾ By the use of special springs, the outlet pressure can be precisely regulated in the specified p_2 range

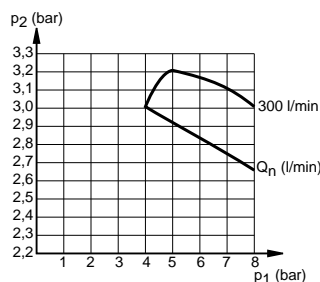
Flow Characteristics

Type: MKS-08



Outlet Pressure Variation with Fluctuation Inlet Pressure

Type: MKS-08



Filter-Regulator

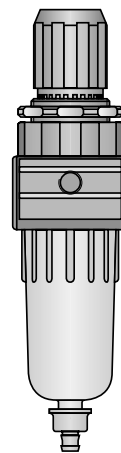
G1/8, G1/4

Pressure regulating valve with filter-water-separator

Degree of moisture separation >90%

airfit light

MKS



Filter-regulator with secondary pressure relief, hand wheel lockable

- mounting ring included
- recyclable technical polymer
- impact resistant glassfibre reinforced polymer housing (UV resistant) with metal thread inserts
- version with NPTF thread

For single units see 5.09.004E-5.09.008E
For air preparation units see 5.09.002E, 5.09.003E
For product group list see 5.09.001E

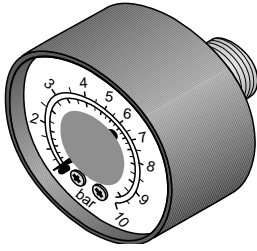
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Accessories

Gauge

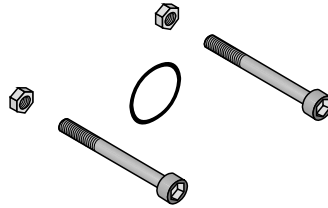
Ø 40, 0-10 bar, G1/8



Order No.: KZ 8891

Accessories

Coupling kit



Order No.: PL 16030

Accessories

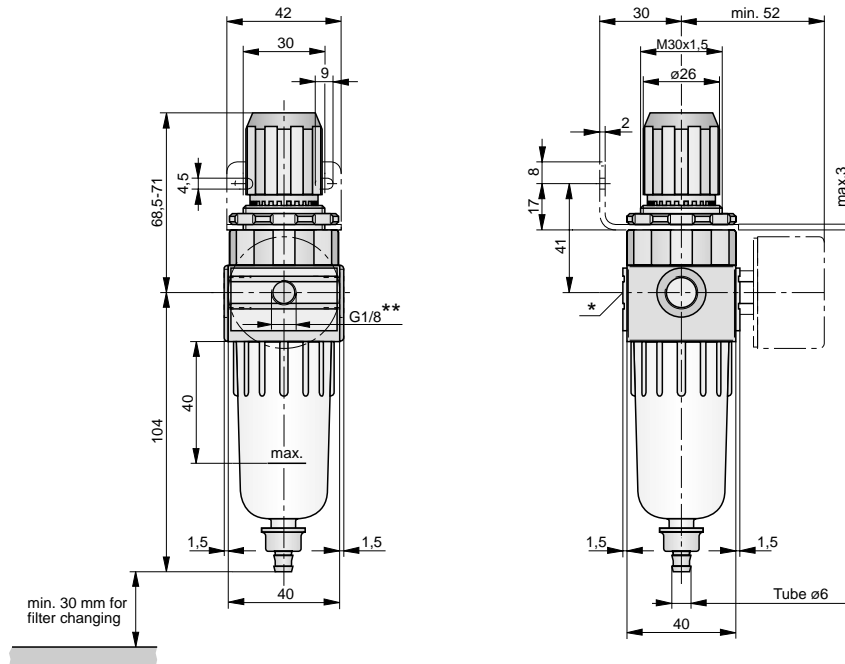
Mounting bracket



Order No.: PL 15531

Dimensions (mm)

Type: MKS-06/08



* On delivery the plug screw is not assembled.

** Two opposite gauge ports G1/8

Order Instructions

Description	Port size	Type	Order No.
Basic model	G1/8	MKS-06	PB 40049-100
Basic model	G1/4	MKS-08	PB 40149-100
With filter element 5 µm	G1/8	MKS-06-5	PB 40049-116
With filter element 5 µm	G1/4	MKS-08-5	PB 40149-116
With semiautomatic drainage	G1/8	MKS-06-H	PB 40049-101
With semiautomatic drainage	G1/4	MKS-08-H	PB 40149-101

Accessories

Description	Order No.
Gauge, Ø 40, 0-10 bar, G1/8	KZ 8891 (airfit light design) KZ 8813 (neutral)
Mounting bracket	PL 15531
Coupling kit	PL 16030
Coupling kit for 2 units to MKS/MRP (e.g. FF and FC)	PL 16755
Porting block kit G1/4	PL 16031
Regulator spring for operating pressure 3 bar	PL 15876
Regulator spring for operating pressure 4 bar	PL 16776
Mounting ring for sheet thickness 6 mm (hole Ø 36.5 - 38 mm)	PL 16198
Mounting ring for sheet thickness 8 mm (hole Ø 36.5 - 38 mm)	PL 15925

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The right to introduce technical modifications is reserved

Characteristics		Pressures quoted as gauge pressure	
System			Cyclone system and filter element
Type		MFS-06	MFS-08
Port size		G1/8	G1/4
Pore size of filter element		µm	30 (white) or 5 (yellow)
Max. condensate capacity		cm ³	12
Condensate drainage			Manual or semiautomatic (pressure relief)
Installation			Vertical
Medium and ambient temperatures	t_{\min} t_{\max}	°C °C	0 +50 at 10 bar
Weight (mass)		kg	0.1
Pneumatic Characteristic			
Operating pressure range - inlet pressure	$p_{1 \min}$ $p_{1 \max}$	bar bar	0 10
Recommended flow ¹⁾	Q_n	l/min m ³ /h	300 18
			550 33
Max. flow ²⁾	Q_{\max}	l/min m ³ /h	1085 65
			1830 110
Degree of moisture separation at recommended flow	η	%	>90
¹⁾ at 6.3 bar and 25 m/s ²⁾ at $p_1 = 10$ bar and $p_2 = 6.3$ bar, $\Delta p = 1$ bar			

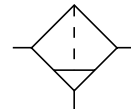
Filter-Water-Separator

G1/8, G1/4

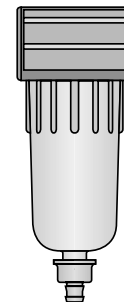
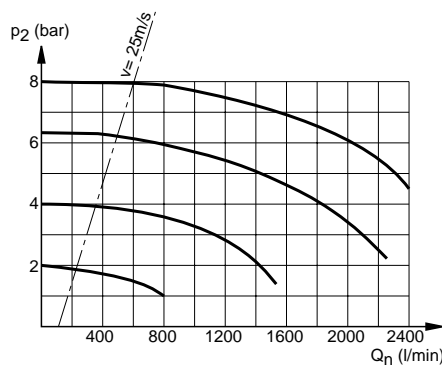
Degree of moisture separation >90%

airfit light

MFS



Flow Characteristics



Filter-water-separator with cyclon system and filter element.

- mounting ring included
- recyclable technical polymer
- impact resistant glassfibre reinforced polymer housing (UV resistant) with metal thread inserts
- version with NPTF thread

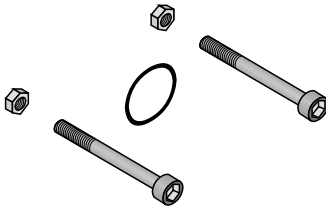
For single units see 5.09.004E-5.09.008E
 For air preparation units see 5.09.002E, 5.09.003E
 For product group list see 5.09.001E

Data Sheet No. 5.09.005E-1

HOERBIGER
ORIGA

Accessories

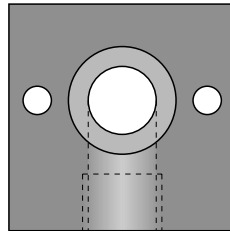
Coupling kit



Order No.: PL 16030

Accessories

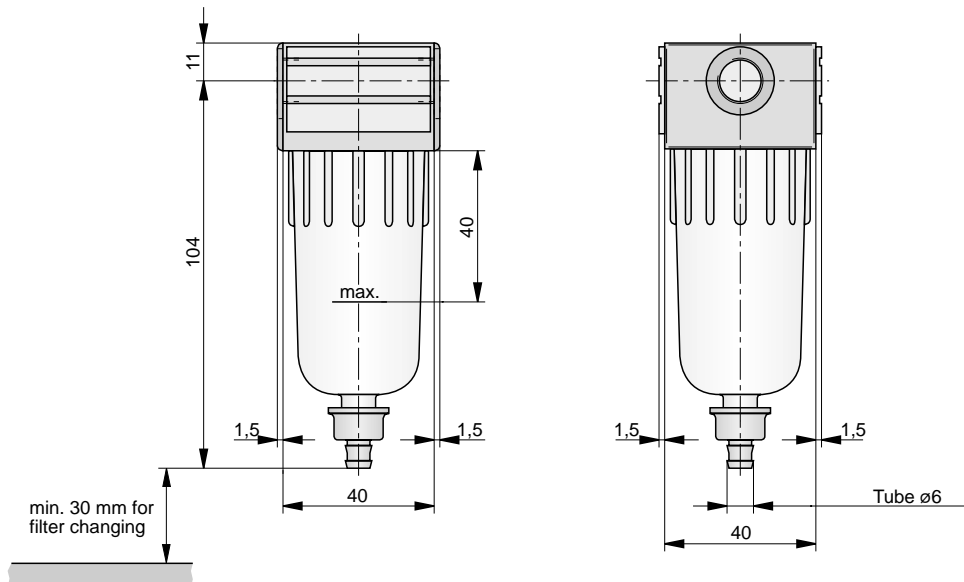
Porting block kit G1/4
to provide unlubricated air
e.g. for air gun
for ruther details see 5.21.002E



Order No.: PL 16031

Dimensions (mm)

Type: MFS-06/08



Order Instructions

Description	Port size	Type	Order No.
Basic model	G1/8	MFS-06	PB 40649-100
Basic model	G1/4	MFS-08	PB 40749-100
With filter element 5 µm	G1/8	MFS-06-5	PB 40649-116
With filter element 5 µm	G1/4	MFS-08-5	PB 40749-116
With semiautomatic drainage	G1/8	MFS-06-H	PB 40649-101
With semiautomatic drainage	G1/4	MFS-08-H	PB 40749-101

Accessories

Description	Order No.
Coupling kit	PL 16030
Coupling kit for 2 units to MKS/MRP (e.g. MFS and FF)	PL 16755
Coupling kit for FF+FC, MFS + FF, MFS + MLS	PL 16669
Porting block kit G1/4	PL 16031

Characteristics		Pressures quoted as gauge pressure	
System		Piston-type pressure regulating valve (spring loaded) with secondary pressure relief	
Type		MRP-06	MRP-08
Port size		G1/8	G1/4
Installation		In any position	
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	$^{\circ}\text{C}$ $^{\circ}\text{C}$	0 +50
Weight (mass)		kg	0.11
Pneumatic Characteristic			
Operating pressure range - inlet pressure	$p_{1\min}$ $p_{1\max}$	bar bar	0 10
Operating pressure range - outlet pressure	$p_{2\min}$ $p_{2\max}$	bar bar	0.5 on request 8 0.5 0.5 ³⁾ 3 4
Min. pressure difference	$p_1 - p_2$	bar	0.2
Hysteresis $p_1=10/p_2=0$ Hysteresis $p_1=10/p_2=8$		bar bar	1.6 0.6
Recommended flow ¹⁾	Q_n	l/min m ³ /h	300 18
Max. flow ²⁾	Q_{\max}	l/min m ³ /h	530 32
			550 33
			770 46

¹⁾ at 6.3 bar and 25 m/s

²⁾ at $p_1 = 10$ bar and $p_2 = 6.3$ bar, $\Delta p = 1$ bar

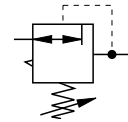
³⁾ By the use of special springs, the outlet pressure can be precisely regulated in the specified p_2 range

Pressure Regulating Valve

G1/8, G1/4

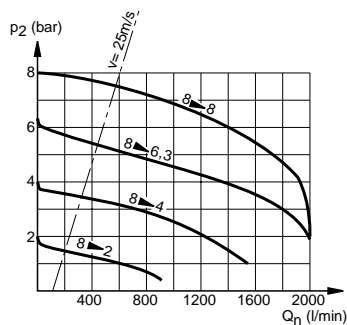
airfit light

MRP



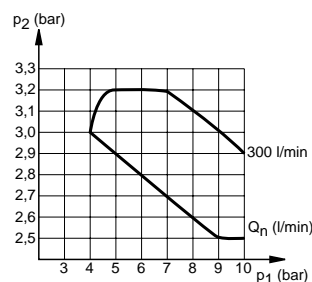
Flow Characteristics

Type: MRP-08

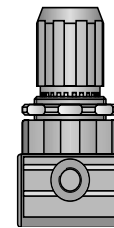


Outlet Pressure Variation with Fluctuating Inlet Pressure

Type: MRP-08



Piston-type pressure regulating valve (spring loaded) with secondary pressure relief, handwheel lockable



- mounting ring included
- recyclable technical polymer
- impact resistant glassfibre reinforced polymer housing (UV resistant) with metal thread inserts
- version with NPTF thread

For single units see 5.09.004E-5.09.008E

For air preparation units see 5.09.002E, 5.09.003E

For product group list see 5.09.001E

Data Sheet No. 5.09.006E-1

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Accessories

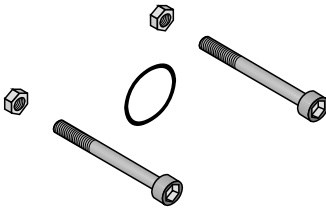
Gauge
 Ø 40, 0-10 bar, G1/8



Order No.: KZ 8891

Accessories


Coupling kit



Order No.: PL 16030

Accessories

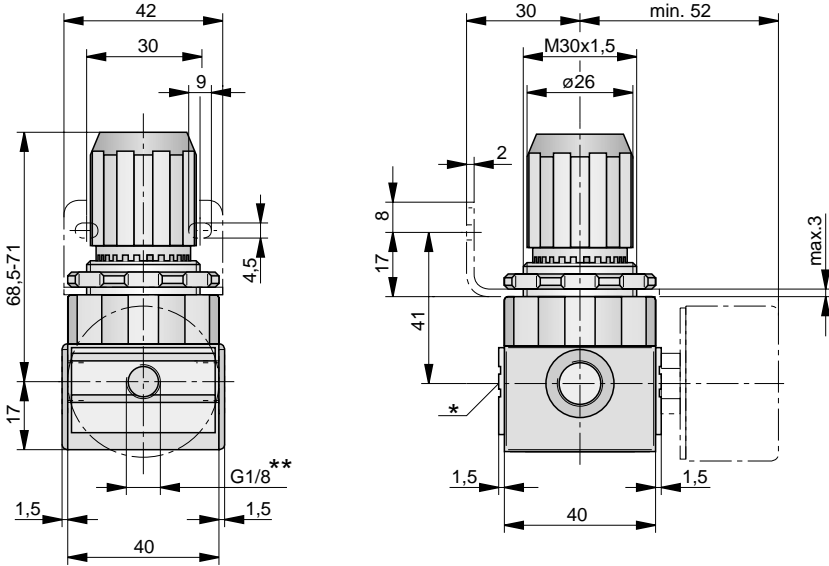
Mounting bracket



Order No.: PL 15531

Dimensions (mm)

Type: MRP-06/08



* On delivery the plug screw is not assembled.
 ** Two opposite gauge ports G1/8

Order Instructions			
Description	Port size	Type	Order No.
Basic model	G1/8	MRP-06	PB 21749-500
Basic model	G1/4	MRP-08	PB 21649-500
Accessories			
Description	Order No.		
Gauge, Ø 40, 0-10 bar, G1/8	KZ 8891 (airfit light design) KZ 8813 (neutral)		
Mounting bracket	PL 15531		
Coupling kit	PL 16030		
Coupling kit for 2 units to MKS/MRP (e.g. MFS and FF)	PL 16755		
Porting block kit G1/4	PL 16031		
Regulator spring for operating pressure 3 bar	PL 15876		
Regulator spring for operating pressure 4 bar	PL 16776		
Mounting ring for sheet thickness 6 mm (hole Ø 36.5 - 38 mm)	PL 16198		
Mounting ring for sheet thickness 8 mm (hole Ø 36.5 - 38 mm)	PL 15925		

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The right to introduce technical modifications is reserved

Characteristics		Pressures quoted as gauge pressure	
System		Oil mist lubricator with flow compensation	
Type		MLS-06	MLS-08
Port size		G1/8	G1/4
Oil/air ratio		Degressive (number of drops per minute remains constant)	
Max. oil capacity		cm ³	35
Oil refilling *)		Manual	
Installation		Vertical	
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	0 +50 at 10 bar
Weight (mass)		kg	0.09
Pneumatic Characteristic			
Operating pressure range	p_{\min} p_{\max}	bar bar	0 10
Recommended flow ¹⁾	Q_n	l/min m ³ /h	300 18 550 33
Max. flow ²⁾	Q_{\max}	l/min m ³ /h	865 52 1400 84
Best operating range for constant oil/air ratio	Q_n	m ³ /h	See diagram "min. operating conditons"

¹⁾ at 6.3 bar and 25 m/s

²⁾ at $p_1 = 10$ bar and $p_2 = 6.3$ bar, $\Delta p = 1$ bar

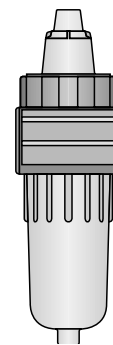
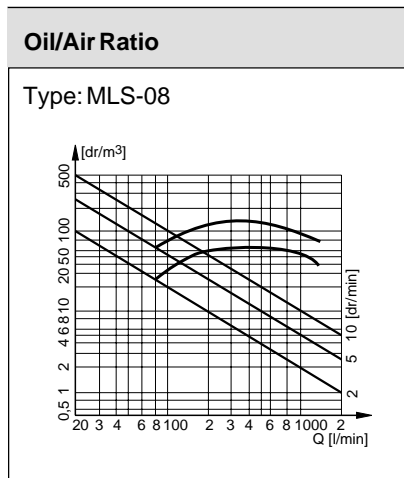
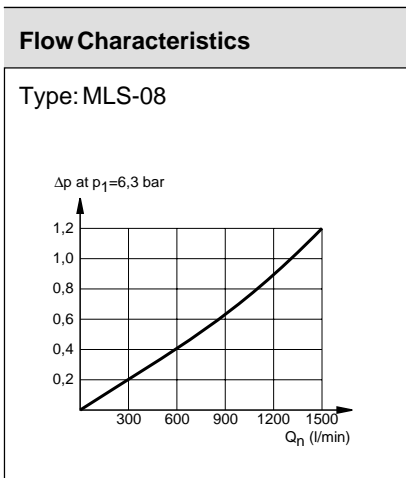
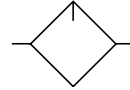
*) Use only recommended oils with viscosity VG32 to ISO 3448 (32 mm²/s at 40°C) or HOERBIGER special oil, Order No.: KY 8766 (Cat.-No. 5.61.050E)

Oil Mist Lubricator

G1/8, G1/4

airfitlight

MLS



Oil mist lubricator with flow compensation (number of drops per minute is constant)

- recyclable technical polymer
- impact resistant glassfibre reinforced polymer housing (UV resistant) with metal thread inserts
- version with NPTF thread

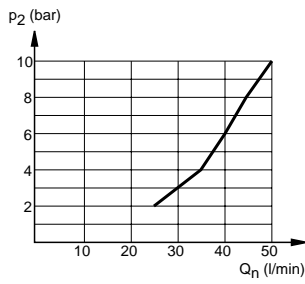
For single units see 5.09.004E-5.09.008E
 For air preparation units see 5.09.002E, 5.09.003E
 For product group list see 5.09.001E

Data Sheet No. 5.09.007E-1

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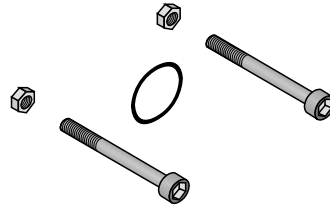
Min. Operating Conditions

Type: MLS-08



Accessories

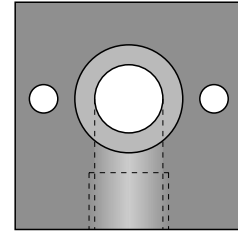
Coupling kit



Order No.: PL 16030

Accessories

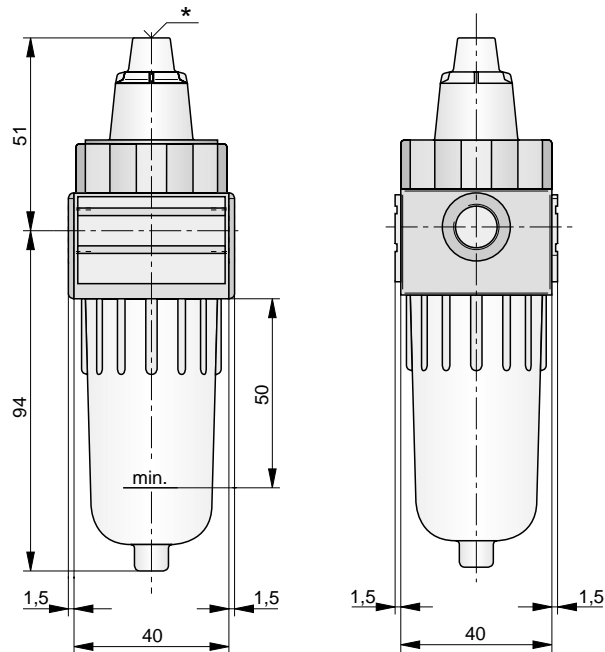
Porting block kit G1/4



Order No.: PL 16031

Dimensions (mm)

Type: MLS-06/08



* Oil adjusting screw

Order Instructions

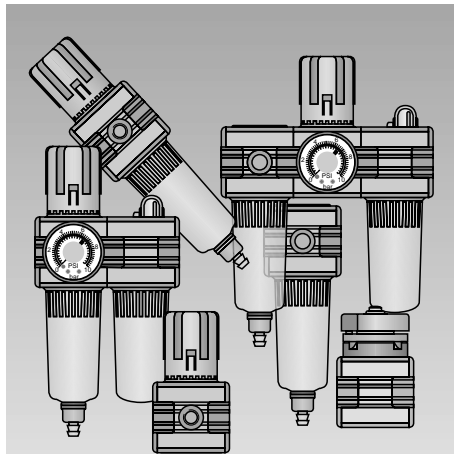
Description	Port size	Type	Order No.
Basic model	G1/8	MLS-06	PB 40249-100
Basic model	G1/4	MLS-08	PB 40349-100

Accessories

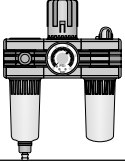




Description	Order No.
Coupling kit	PL 16030
Coupling kit for 2 units to MKS/MRP (e.g. MFS and MLS)	PL 16755
Coupling kit for FF+FC, MFS + FF, MFS + MLS	PL 16669
Porting block kit G1/4	PL 16031

**PNEUMATIC
GROUP**

**AIR PREPARATION UNITS
G1/8-G3/8
SERIES**



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ORIGA

		Port size	Recommended flow (l/min)	Maximum flow menge (l/min)	Type	Data Sheet No.
Air preparation units		G1/8	300	610	SFRL-1/8	5.12.002E
		G1/4	550	825	SFRL-1/4	
		G3/8	680*	790	SFRL-3/8	
		G1/8	300	560	SKL-1/8	5.12.003E
		G1/4	550	890	SKL-1/4	
		G3/8	680*	790	SKL-3/8	
Filter-regulator		G1/8	300	790	SK-1/8	5.12.004E
		G1/4	550	2280	SK-1/4	
		G3/8	850	3200	SK-3/8	
Filter-water-separator		G1/8	300	990	SF-1/8	5.12.005E
		G1/4	550	1440	SF-1/4	
		G3/8	850	1520	SF-3/8	
Pressure regulating valve		G1/8	300	790	SR-1/8	5.12.006E
		G1/4	550	1050	SR-1/4	
		G3/8	850	3300	SR-3/8	
Oil mist lubricator		G1/8	300	1260	SL-1/8	5.12.007E
		G1/4	550	1830	SL-1/4	
		G3/8	850	1880	SL-3/8	
Economy lubricator		G1/4	250	500	SEL-1/4-3	5.12.008E
		G1/4	450	800	SEL-1/4-4	
		G1/4	550	1000	SEL-1/4-5	
3/2 way shut-off valve		G1/4	550	2480	SDV-1/4 SX	5.21.011E
		G3/8	850	2600	SDV-3/8 SX	
Start valve		G1/4	550	1600	SDA-1/4	5.95.015E

* at 6.3 bar and 20 m/s, recommended because of size of unit.

A3P078E71EAA00X

The right to introduce technical modifications is reserved

Table of Contents see 5.00.001E

A1P480E00EAA00X

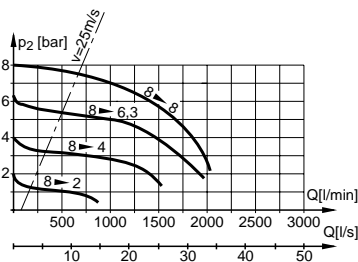
The right to introduce technical modifications is reserved

Characteristics		Pressures quoted as gauge pressure		
System		Air preparation unit comprising filter-water-separator, diaphragm-type pressure regulating valve and oil mist lubricator *)		
Type		SFRL-1/8	SFRL-1/4	SFRL-3/8
Port size		G1/8	G1/4	G3/8
Max. condensate capacity	cm ³	22		
Pore size of filter element	µm	30 (white) or 5 (yellow)		
Condensate drainage		Manual or semiautomatic (pressure relief)		
Max. oil capacity	cm ³	45		
Oil refilling		Manual - also during operation		
Installation		Vertical		
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	0 (further temperatures on request) +50 at 10 bar	
Weight (mass)	kg	0.95		
Pneumatic Characteristic¹⁾				
Operating pressure range - inlet pressure	$p_{1 \min}$	bar	0	
	$p_{1 \max}$	bar	16	
Operating pressure range - outlet pressure	$p_{2 \min}$	bar	0.5 on request	0.5
	$p_{2 \max}$	bar	8	4 15
Recommended flow ²⁾	Q_n	l/min m ³ /h	300 18	550 33
Maximum flow ⁴⁾	Q_{\max}	l/min m ³ /h	610 37	825 50
				790 47

- 1) For further characteristics see 5.12.005E, 5.12.006E, 5.12.007E
 2) at 6 bar and 25 m/s (at 6.3 bar and 20 m/s, recommended for G3/8)
 3) By the use of special springs, the outlet pressure can be precisely regulated in the specified p_2 range
 4) at $p_1 = 10$ bar and $p_2 = 6.3$ bar, $\Delta p = 1$ bar
 *) Use only recommended oils with viscosity VG32 to ISO 3448 (32 mm²/s at 40°C) or HOERBIGER special oil, Order No.: KY 8766 (Cat.-No. 5.61.050E)

Flow Characteristics

Type: SFRL-1/4



For single units see 5.12.004E-5.12.008E
 For air preparation units see 5.12.002E, 5.12.003E
 For product group list see 5.12.001E

Data Sheet No. 5.12.002E-1

Air Preparation Unit

G1/8, G1/4, G3/8



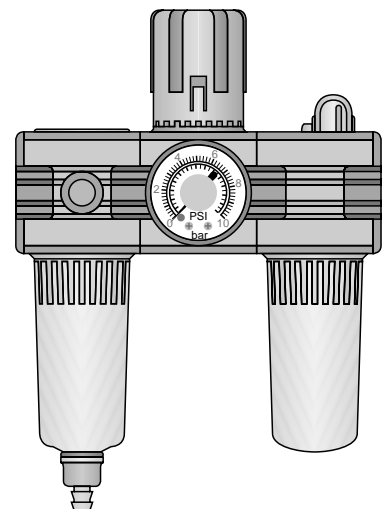
SFRL



Air preparation unit comprising:

- Filter-water-separator
- Diaphragm-type pressure regulating valve
- Oil mist lubricator
- Gauge
- Mounting bracket

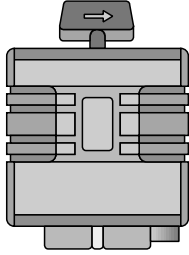
- easily adaptable to customer's choice of colour and private labelling
- quick, easy filter change with new Quick-Snap system
- filter contains no non-ferrous metal
- inlet pressure and volume compensation
- version with NPTF thread



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Accessories

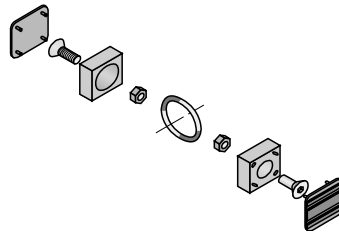
3/2 way shut-off valve
Type: SDV-1/4X



Order No.: PB 46749-001

Accessories

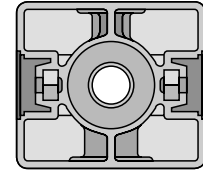
Coupling kit



Order No.: PL 16959

Accessories

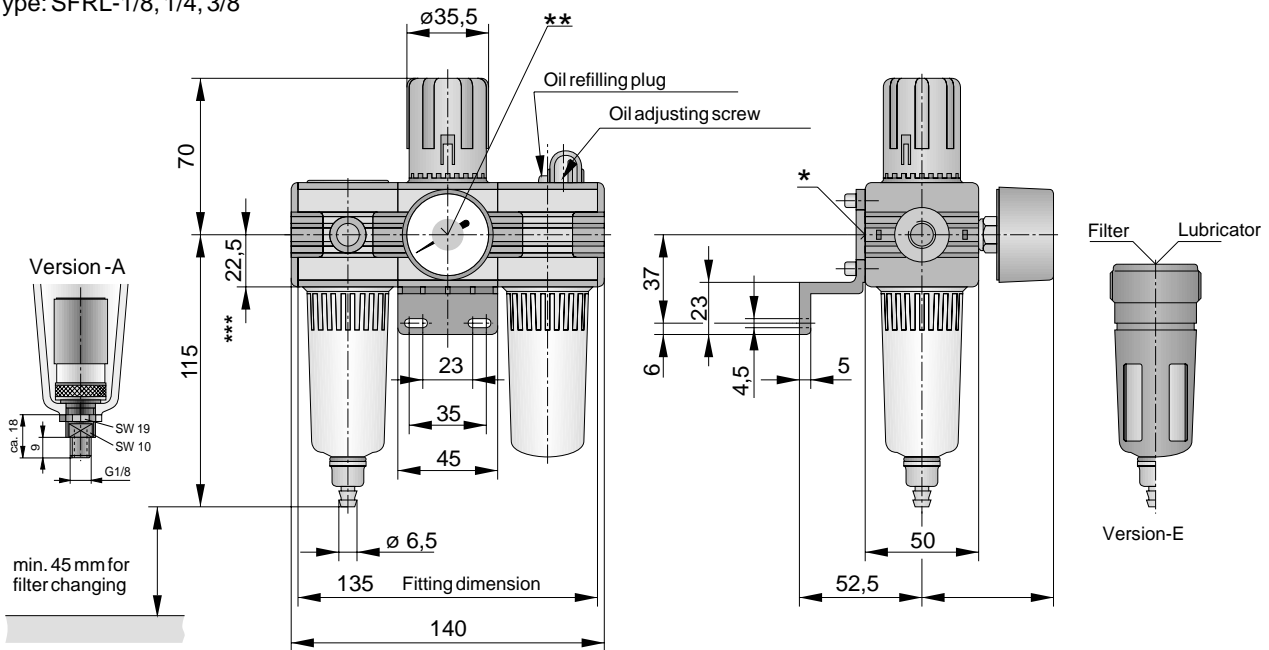
Porting block kit, Type: SX
to provide unlubricated air.
For further details see 5.21.010E



Order No.: PL 16969

Dimensions (mm)

Type: SFRL-1/8, 1/4, 3/8



- * On delivery the plug screw is not assembled.
- ** Two opposite gaugeports G1/8
- *** 130 mm on Version with automatic drainage

Order Instructions			
Description	Port size	Type	Order No.
Basic model	G1/8	SFRL-1/8	PB 48049-000
Basic model	G1/4	SFRL-1/4	PB 48149-000
Basic model	G3/8	SFRL-3/8	PB 48249-000
With semiautomatic drainage	G1/8	SFRL-1/8-H	PB 48049-001
With semiautomatic drainage	G1/4	SFRL-1/4-H	PB 48149-001
With semiautomatic drainage	G3/8	SFRL-3/8-H	PB 48249-001
With automatic drainage	G1/8	SFRL-1/8-A	PB 48049-002
With automatic drainage	G1/4	SFRL-1/4-A	PB 48149-002
With automatic drainage	G3/8	SFRL-3/8-A	PB 48249-002
With metal bowl ¹⁾	G1/8	SFRL-1/8-D	PB 48049-003
With metal bowl ¹⁾	G1/4	SFRL-1/4-D	PB 48149-003
With metal bowl ¹⁾	G3/8	SFRL-3/8-D	PB 48249-003
With metal bowl (sight glass) ¹⁾	G1/8	SFRL-1/8-E	PB 48049-004
With metal bowl (sight glass) ¹⁾	G1/4	SFRL-1/4-E	PB 48149-004
With metal bowl (sight glass) ¹⁾	G3/8	SFRL-3/8-E	PB 48249-004

¹⁾ Versions with metal bowl and automatic drainage on request.

Accessories

Description	Bestell-Nr.
Porting block kit G1/4 / 3xG1/8 (inc. coupling kit)	PL 16969
Porting block kit with integrated check valve	PL 17316
Regulator spring for operating pressure 4 bar *)	PL 15249
Regulator spring for operating pressure 15 bar *)	PL 16320
3/2 way shut-off valve SDV-1/4XS, 3-fold lockable, spool type	PB 46749-101
3/2 way shut-off valve SDV-3/8XS, 3-fold lockable, spool type	PB 46849-101
Coupling kit	PL 16959
Solvent resistant sight glass	PL 07233
Bowl guard kit	PL 16970
Bell disassembly tool	PL 17638

*) For gauges for other pressure ranges see 5.21.005E

Characteristics		Pressures quoted as gauge pressure		
System		Air preparation unit comprising filter-regulator and oil mist lubricator *)		
Type		SKL-1/8	SKL-1/4	SKL-3/8
Port size		G1/8	G1/4	G3/8
Max. condensate capacity	cm ³	22		
Pore size of filter element	µm	30 (white) or 5 (yellow)		
Condensate drainage		Manual or semiautomatic (pressure relief)		
Max. oil capacity	cm ³	45		
Oil refilling		Manual - also during operation		
Installation		Vertical		
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	0 (further temperatures on request) +50 at 10 bar	
Weight (mass)	kg	0.75		
Pneumatic Characteristic¹⁾				
Operating pressure range - inlet pressure	$p_{1\min}$ $p_{1\max}$	bar bar	0 16	
Operating pressure range - outlet pressure	$p_{2\min}$ $p_{2\max}$	bar bar	0.5 on request 8	0.5 4 0.5 ³⁾ 15
Recommended flow ²⁾	Q_n	l/min m ³ /h	300 18	550 33
Maximum flow ⁴⁾	Q_{\max}	l/min m ³ /h	560 34	890 53
				790 47

1) For further characteristics see 5.12.004E, 5.12.007E

2) at 6 bar and 25 m/s (at 6.3 bar and 20 m/s, recommended for G3/8)

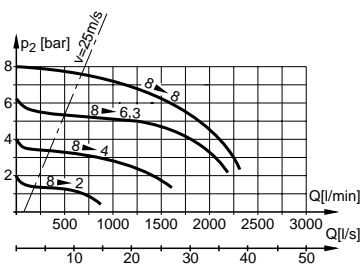
3) By the use of special springs, the outlet pressure can be precisely regulated in the specified p_2 range

4) at $p_1 = 10$ bar and $p_2 = 6.3$ bar, $\Delta p = 1$ bar

*) Use only recommended oils with viscosity VG32 to ISO 3448 (32 mm²/s at 40°C) or HOERBIGER special oil, Order No.: KY 8766 (Cat.-No. 5.61.050E)

Flow Characteristics

Type: SKL-1/4



For single units see 5.12.004E-5.12.008E

For air preparation units see 5.12.002E, 5.12.003E

For product group list see 5.12.001E

Data Sheet No. 5.12.003E-1

Air Preparation Unit

G1/8, G1/4, G3/8



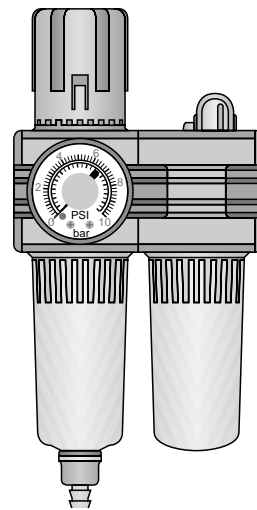
SKL



Air preparation unit comprising:

Filter-regulator
Oil mist lubricator
Gauge
Mounting bracket

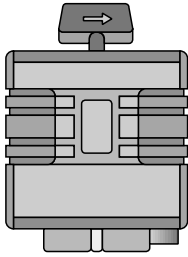
- easily adaptable to customer's choice of colour and private labelling
- quick, easy filter change with new Quick-Snap system
- filter contains no non-ferrous metal
- inlet pressure and volume compensation
- version with NPTF thread



HOERBIGER
ORIGA

Accessories

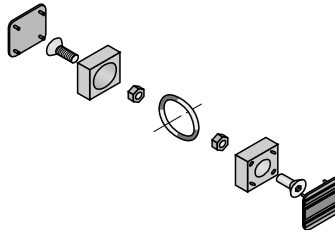
3/2 way shut-off valve
Type: SDV-1/4X



Order No.: PB 46749-001

Accessories

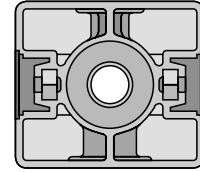
Coupling kit



Order No.: PL 16959

Accessories

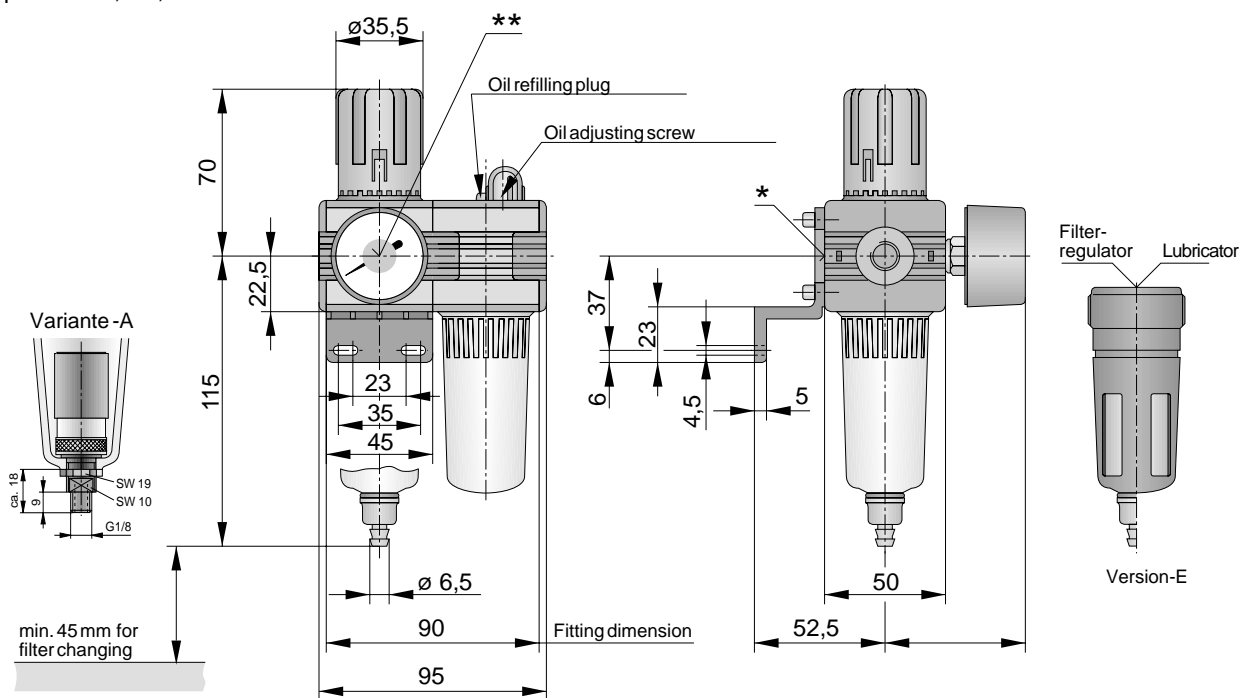
Porting block kit, Type: SX
to provide unlubricated air.
For further details see 5.21.010E



Order No.: PL 16969

Abmessungen (mm)

Typ: SKL-1/8, 1/4, 3/8



* On delivery the plug screw is not assembled.

** no opposite gauge ports G1/8

*** 130 mm on Version with automatic drainage

Order Instructions			
Description	Port size	Type	Order No.
Basic model	G1/8	SKL-1/8	PB 48349-000
Basic model	G1/4	SKL-1/4	PB 48449-000
Basic model	G3/8	SKL-3/8	PB 48549-000
With semiautomatic drainage	G1/8	SKL-1/8-H	PB 48349-001
With semiautomatic drainage	G1/4	SKL-1/4-H	PB 48449-001
With semiautomatic drainage	G3/8	SKL-3/8-H	PB 48549-001
With automatic drainage	G1/8	SKL-1/8-A	PB 48349-002
With automatic drainage	G1/4	SKL-1/4-A	PB 48449-002
With automatic drainage	G3/8	SKL-3/8-A	PB 48549-002
With metal bowl ¹⁾	G1/8	SKL-1/8-D	PB 48349-003
With metal bowl ¹⁾	G1/4	SKL-1/4-D	PB 48449-003
With metal bowl ¹⁾	G3/8	SKL-3/8-D	PB 48549-003
With metal bowl (sight glass) ¹⁾	G1/8	SKL-1/8-E	PB 48349-004
With metal bowl (sight glass) ¹⁾	G1/4	SKL-1/4-E	PB 48449-004
With metal bowl (sight glass) ¹⁾	G3/8	SKL-3/8-E	PB 48549-004

¹⁾ Versions with metal bowl and automatic drainage on request

Accessories	
Description	Order No.
Porting block kit G1/4 / 3xG1/8 (inc. coupling kit)	PL 16969
Porting block kit with integrated check valve	PL 17316
Regulator spring for operating pressure 4 bar *)	PL 15249
Regulator spring for operating pressure 15 bar *)	PL 16320
3/2 way shut-off valve SDV-1/4XS, 3-fold lockable, spool type	PB 46749-101
3/2 way shut-off valve SDV-3/8XS, 3-fold lockable, spool type	PB 46849-101
Coupling kit	PL 16959
Solvent resistant sight glass	PL 07233
Bowl guard kit	PL 16970
Bell disassembly tool	PL 17638

*) For gauges for other pressure ranges see 5.21.005E

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The right to introduce technical modifications is reserved

Characteristics		Pressures quoted as gauge pressure			
System		Cyclone system and filter element, combined with diaphragm-type pressure regulating valve (spring loaded) with secondary pressure relief			
Type		SK-1/8	SK-1/4	SK-3/8	
Port size		G1/8	G1/4	G3/8	
Pore size of filter element	μm	30 (white), 5 (yellow)			
Max. condensate capacity	cm^3	22			
Condensate drainage		Manual or semiautomatic (pressure relief)			
Installation		Vertical			
Medium and ambient temperatures	ϑ_{min} ϑ_{max}	$^{\circ}\text{C}$ $^{\circ}\text{C}$	0 +50 at 10 bar (further temperatures on request)		
Weight (mass)	kg	0.35			
Pneumatic Characteristic					
Operating pressure range - inlet pressure	$p_{1\text{min}}$ $p_{1\text{max}}$	bar bar	0 16		
Operating pressure range - outlet pressure	$p_{2\text{min}}$ $p_{2\text{max}}$	bar bar	0.5 8	on request 0.5 4	0.5 ²⁾ 15
Min. pressure difference	$p_1 - p_2$	bar	0.2		
Hysteresis $p_1=10/p_2=0$		bar	0.5		
Hysteresis $p_1=10/p_2=8$		bar	0.4		
Recommended flow ¹⁾	Q_n	l/min m^3/h	300 18	550 33	850 51
Maximum Flow ³⁾	Q_{max}	l/min m^3/h	790 47	2280 137	3200 192
Degree of moisture separation at recommended flow	η	%	95	95	90

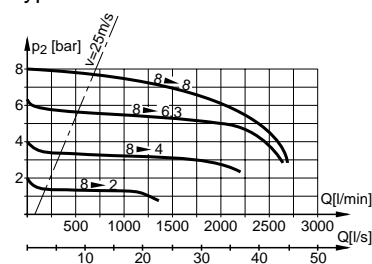
¹⁾ at $p_2 = 6$ bar and 25 m/s

²⁾ By the use of special springs, the outlet pressure can be precisely regulated in the specified p_2 range

³⁾ at $p_1 = 10$ bar and $p_2 = 6.3$ bar, $\Delta p = 1$ bar

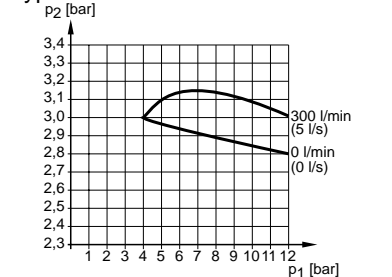
Flow Characteristics

Type: SK-1/4



Outlet Pressure Variation with Fluctuation Inlet Pressure

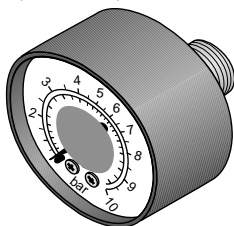
Type: SK-1/4



Accessories

Gauge

Ø40 mm, 0-10 bar, G1/8



Order No.: KZ 8891

For single units see 5.12.004E-5.12.008E

For air preparation units see 5.12.002E, 5.12.003E

For product group list see 5.12.001E

Data Sheet No. 5.12.004E-1

Filter-Regulator

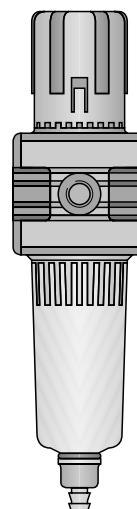
G1/8, G1/4, G3/8

Pressure regulating valve with filter-water-separator

Degree of moisture separation >95 (90) %



SK



Filter-regulator with secondary pressure relief, inlet pressure and volume compensation hand wheel lockable

- easily adaptable to customer's choice of colour and private labelling
- quick, easy filter change with new Quick-Snap system
- inlet pressure and volume compensation
- version with NPTF thread

HOERBIGER

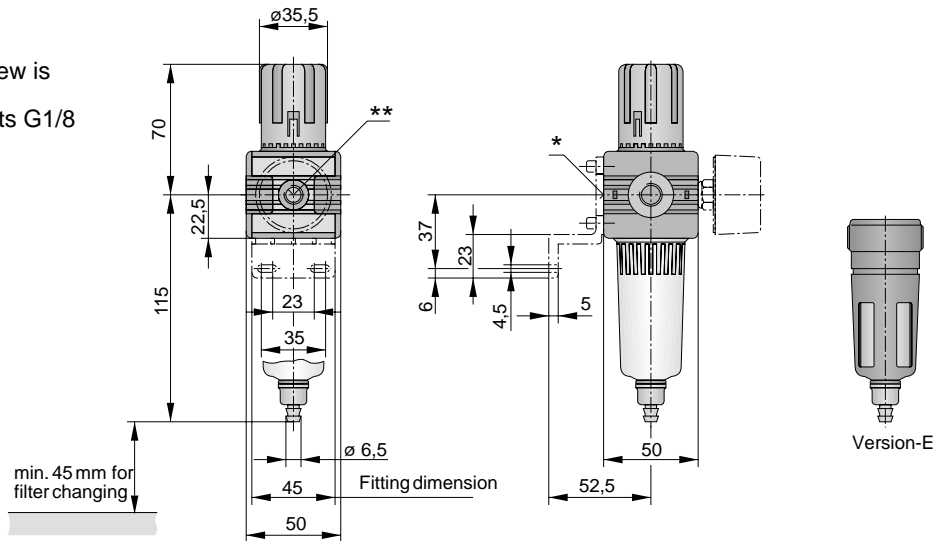
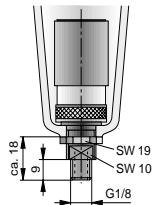
ORIGA

Dimensions (mm)

Type: SK-1/8, 1/4, 3/8

- * On delivery the plug screw is not assembled.
- ** Two opposite gauge ports G1/8
- *** 130 mm on Version with automatic drainage

Variante-A



Order Instructions

Description	Port size	Type	Order No.
Basic model	G1/8	SK-1/8	PB 45649-000
Basic model	G1/4	SK-1/4	PB 45749-000
Basic model	G3/8	SK-3/8	PB 45849-000
With filter element 5 µm	G1/8	SK-1/8-5	PB 45649-016
With filter element 5 µm	G1/4	SK-1/4-5	PB 45749-016
With filter element 5 µm	G3/8	SK-3/8-5	PB 45849-016
With semiautomatic drainage	G1/8	SK-1/8-H	PB 45649-001
With semiautomatic drainage	G1/4	SK-1/4-H	PB 45749-001
With semiautomatic drainage	G3/8	SK-3/8-H	PB 45849-001
With automatic drainage	G1/8	SK-1/8-A	PB 45649-002
With automatic drainage	G1/4	SK-1/4-A	PB 45749-002
With automatic drainage	G3/8	SK-3/8-A	PB 45849-002
With metal bowl ¹⁾	G1/8	SK-1/8-D	PB 45649-031
With metal bowl ¹⁾	G1/4	SK-1/4-D	PB 45749-031
With metal bowl ¹⁾	G3/8	SK-3/8-D	PB 45849-031
With metal bowl (sight glass) ¹⁾	G1/8	SK-1/8-E	PB 45649-004
With metal bowl (sight glass) ¹⁾	G1/4	SK-1/4-E	PB 45749-004
With metal bowl (sight glass) ¹⁾	G3/8	SK-3/8-E	PB 45849-004

¹⁾ Versions with metal bowl and automatic drainage on request

Accessories

Description	Order No.
Gauge Ø40, 0-10 bar, G1/8 *)	KZ 8891
Mounting kit	PL 16965
Coupling kit	PL 16959
Bowl guard kit	PL 16970
Porting block kit G1/4 / 3xG1/8 (inc. coupling kit)	PL 16969
Porting block kit with integrated check valve	PL 17316
Regulator spring for operating pressure 4 bar	PL 15249
Regulator spring for operating pressure 15 bar	PL 16320
3/2 way shut-off valve SDV-1/4XS, 3-fold lockable, spool type	PB 46749-101
3/2 way shut-off valve SDV-3/8XS, 3-fold lockable, spool type	PB 46849-101
Bell disassembly tool	PL 17638

*) For pressure ranges see 5.21.005E

A1P483E00EAAA00X

The right to introduce technical modifications is reserved

Characteristics		Pressures quoted as gauge pressure						
System			Cyclone system and filter element					
Type			SF-1/8	SFD-1/8	SF-1/4	SFD-1/4	SF-3/8	SFD-3/8
Port size			G1/8		G1/4		G3/8	
Pore size of filter element		µm	Standard: 30 (white) 5 (yellow) and 1 (Type SFD)					
Max. condensate capacity		cm ³	22					
Condensate drainage			Manual or semiautomatic with pressure relief (Type SF)					
Installation			Vertical					
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	0 (further temperatures on request) +50 at 10 bar					
Weight (mass)		kg	0.25					
Pneumatic Characteristic								
Operating pressure range	p_{\min} p_{\max}	bar bar	0 16					
Recommended flow ¹⁾	Q_n	l/min m ³ /h	300 18		550 33		850 51	
Maximum flow ²⁾	Q_{\max}	l/min m ³ /h	990 59	1030 62	1440 86	1340 80	1520 91	1620 97
Degree of moisture separation at recommended flow	η	%	95	*	95	*	90	*

¹⁾ at p = 6 bar and 25 m/s

²⁾ at p₁ = 6.3 bar, Δp = 1 bar

*only solid particles > 99 % related to 1µm

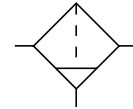
Filter-Water-Separator, Dust Filter

G1/8, G1/4, G3/8

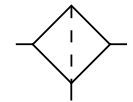
Degree of moisture separation > 95 (90) %
> 99% (SFD)



SF



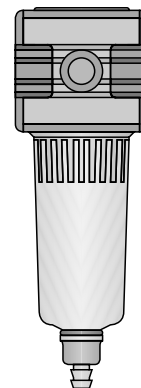
SFD



SF:
Filter-water-separator with cyclone system and filter element.

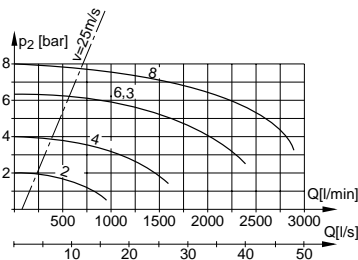
SFD:
For compressed air systems with air dryers.

- easily adaptable to customer's choice of colour and private labelling
- quick, easy filter change with new Quick-Snap system
- no nonferrous metal
- version with NPTF thread



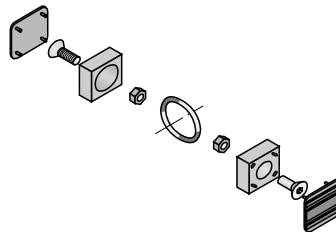
Flow Characteristics

Type: SF-1/4



Accessories

Coupling kit
for filter-regulator-lubricator combination



Order No.: PL 16959

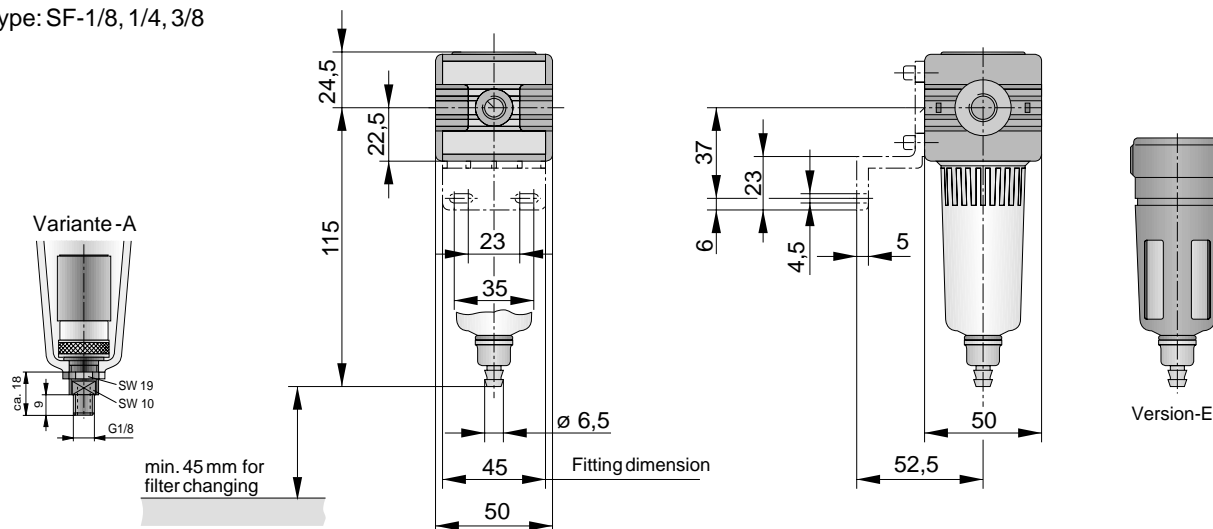
For single units see 5.12.004E-5.12.007E
For air preparation units see 5.12.002E, 5.12.003E
For product group list see 5.12.001E

Data Sheet No. 5.12.005E-1

HOERBIGER
ORIGA

Dimensions (mm)

Type: SF-1/8, 1/4, 3/8



*130 mm on Version with automatic drainage

Order Instructions

Description	Port size	Type	Order No.
Basic model	G1/8	SF-1/8	PB 45049-000
Basic model	G1/4	SF-1/4	PB 45149-000
Basic model	G3/8	SF-3/8	PB 45249-000
With filter element 5 μm	G1/8	SF-1/8-5	PB 45049-016
With filter element 5 μm	G1/4	SF-1/4-5	PB 45149-016
With filter element 5 μm	G3/8	SF-3/8-5	PB 45249-016
With filter element 5 μm	G1/8	SFD-1/8-1	PB 45049-070
With filter element 5 μm	G1/4	SFD-1/4-1	PB 45149-070
With filter element 5 μm	G3/8	SFD-3/8-1	PB 45249-070
With semiautomatic drainage	G1/8	SF-1/8-H	PB 45049-001
With semiautomatic drainage	G1/4	SF-1/4-H	PB 45149-001
With semiautomatic drainage	G3/8	SF-3/8-H	PB 45249-001
With automatic drainage	G1/8	SF-1/8-A	PB 45049-002
With automatic drainage	G1/4	SF-1/4-A	PB 45149-002
With automatic drainage	G3/8	SF-3/8-A	PB 45249-002
With metal bowl ¹⁾	G1/8	SF-1/8-D	PB 45049-003
With metal bowl ¹⁾	G1/4	SF-1/4-D	PB 45149-003
With metal bowl ¹⁾	G3/8	SF-3/8-D	PB 45249-003
With metal bowl (sight glass) ¹⁾	G1/8	SF-1/8-E	PB 45049-004
With metal bowl (sight glass) ¹⁾	G1/4	SF-1/4-E	PB 45149-004
With metal bowl (sight glass) ¹⁾	G3/8	SF-3/8-E	PB 45249-004

¹⁾ Version with metal bowl and automatic drainage on request

Accessories

Description	Order No.
Mounting kit	PL 16965
Coupling kit	PL 16959
Bowl guard kit	PL 16970
Porting block kit G1/4 / 3xG1/8 (inc. coupling kit)	PL 16969
Porting block kit with integrated check valve	PL 17316
3/2 way shut-off valve SDV-1/4XS, 3-fold lockable, spool type	PB 46749-101
3/2 way shut-off valve SDV-1/4XS, 3-fold lockable, spool type	PB 46849-101

Characteristics		Pressures quoted as gauge pressure		
System		Diaphragm-type pressure regulating valve (spring loaded) with secondary pressure relief		
Type		SR-1/8	SR-1/4	SR-3/8
Port size		G1/8	G1/4	G3/8
Installation		In any position		
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	0 +60 (further temperatures on request)	
Weight (mass)		kg	0.3	
Pneumatic Characteristic				
Operating pressure range - inlet pressure	$p_{1\min}$ $p_{1\max}$	bar bar	0 16	
Operating pressure range - outlet pressure	$p_{2\min}$ $p_{2\max}$	bar bar	0.5 8	on request 4 0.5 ²⁾ 15
Min. pressure difference	$p_1 - p_2$	bar	0.2	
Hysteresis $p_1=10/p_2=0$		bar	0.5	
Hysteresis $p_1=10/p_2=8$		bar	0.4	
Recommended flow ¹⁾	Q_n	l/min m ³ /h	300 18	550 33
Maximum flow ³⁾	Q_{\max}	l/min m ³ /h	790 47	2850 171
				3300 198

¹⁾ at $p_2 = 6$ bar and 25 m/s

²⁾ By the use of special springs, the outlet pressure can be precisely regulated in the specified p_2 range

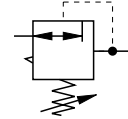
³⁾ at $p_1 = 10$ bar and $p_2 = 6.3$ bar, $\Delta p = 1$ bar

Pressure Regulating Valve

G1/8, G1/4, G3/8



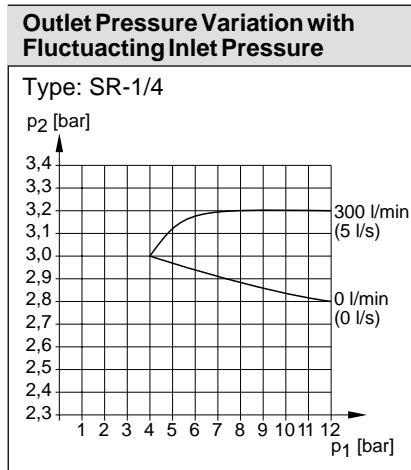
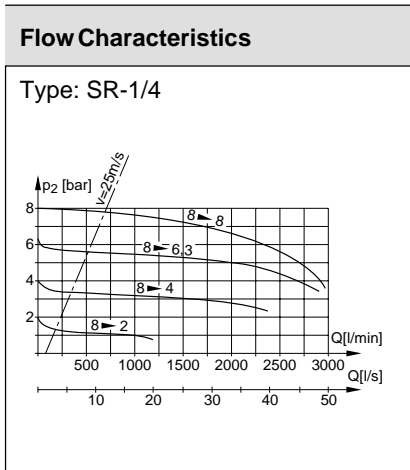
SR



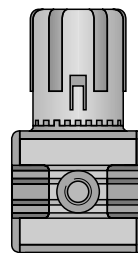
Pressure Regulator with High Relief Capacity

Type: SR-1/4SO
PB 45449-030

Example:
To regulate the pressure in the direction of the stroke, install the regulator as shown in the diagram. The pressure relief uses the full cross-section of the valve, allowing the cylinder to travel at full speed.



Diaphragm-type pressure regulating valve (spring loaded) with secondary pressure relief, inlet pressure and volume compensation handwheel lockable



- easily adaptable to customer's choice of colour and private labelling
- inlet pressure and volume compensation
- version with NPTF thread
- specially developed roller diaphragm

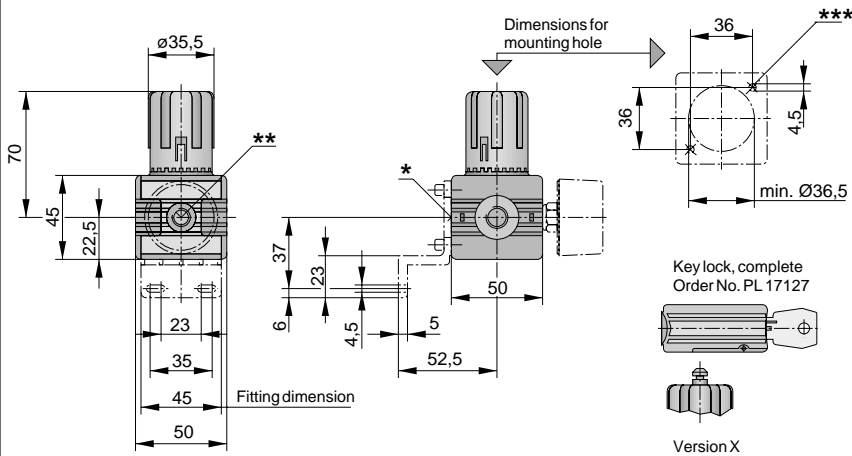
For single units see 5.12.004E-5.12.008E
For air preparation units see 5.12.002E, 5.12.003E
For product group list see 5.12.001E

Data Sheet No. 5.12.006E-1



Dimensions (mm)

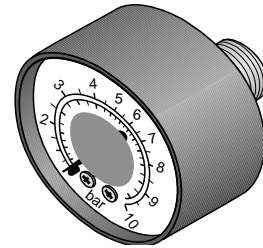
Type: SR-1/8, 1/4, 3/8



- * On delivery the plug screw is not assembled.
- ** Two opposite gauge ports G1/8
- *** For self-tapping screw M4, DIN 7500
maximum screw depth: 10 mm

Accessories

Gauge
Ø 40 mm, 0-10 bar, G1/8



Order No.: KZ 8891

Order Instructions

Description	Port size	Type	Order No.
Basic model	G1/8	SR-1/8	PB 45349-000
Basic model	G1/4	SR-1/4	PB 45449-000
Basic model	G3/8	SR-3/8	PB 45549-000
With adapter for keylock	G1/8	SR-1/8-X	PB 45349-006
With adapter for keylock	G1/4	SR-1/4-X	PB 45449-006
With adapter for keylock	G3/8	SR-3/8-X	PB 45549-006

Accessories

Description	Order No.
Gauge Ø 40, 0-10 bar, G1/8 *)	KZ 8891
Mounting kit	PL 16965
Coupling kit	PL 16959
Porting block kit G1/4 / 3xG1/8 (inc. coupling kit)	PL 16969
Porting block kit with integrated check valve	PL 17316
Keylock	PL 17127
Regulator spring for operating pressure 4 bar	PL 15249
Regulator spring for operating pressure 15 bar	PL 16320
3/2 way shut-off valve SDV-1/4XS, 3-fold lockable, spool type	PB 46749-101
3/2 way shut-off valve SDV-3/8XS, 3-fold lockable, spool type	PB 46849-101

*) For pressure ranges see 5.21.005E

Data Sheet No. 5.12.006E-2

Characteristics		Pressures quoted as gauge pressure		
System		Oil mist lubricator with flow compensation*)		
Type		SL-1/8	SL-1/4	SL-3/8
Port size		G1/8	G1/4	G3/8
Oil/air ratio		Degressive (number of drops per minute remains constant)		
Max. oil capacity	cm ³	45		
Oil refilling		Manual - also during operation		
Installation		Vertical		
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	0 (further temperatures on request) +50 at 10 bar	
Weight (mass)	kg	0.25		
Pneumatic Characteristic				
Operating pressure range	p_{\min} p_{\max}	bar bar	0 16	
Recommended flow ¹⁾	Q_n	l/min m ³ /h	300 18	550 33
Maximum Flow ²⁾	Q_{\max}	l/min m ³ /h	1260 76	1830 110
Recommended operating range	Q_n	m ³ /h	0.2...30 0.2...54	

¹⁾ at 6 bar and 25 m/s

²⁾ at $p_1 = 6.3 \text{ bar}$, $\Delta p = 1 \text{ bar}$

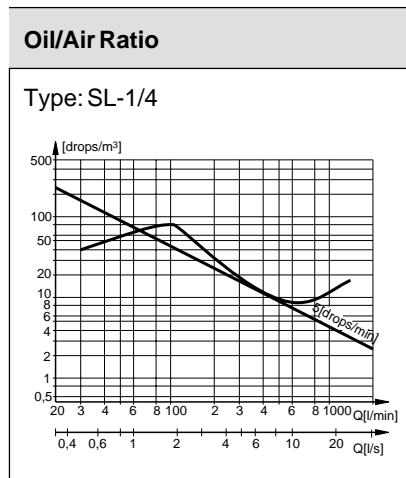
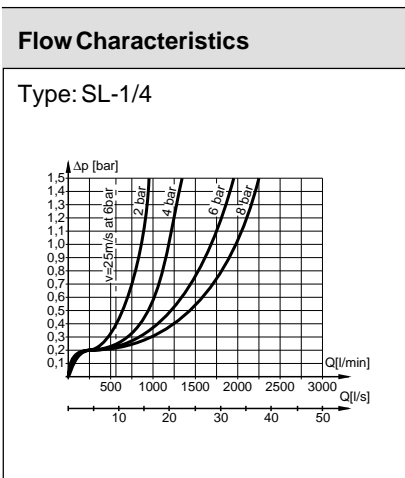
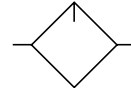
*) Use only recommended oils with viscosity VG32 to ISO 3448 (32 mm²/s at 40°C) or HOERBIGER special oil, Order No.: KY 8766 (Cat.-No. 5.61.050E)

Oil Mist Lubricator

G1/8, G1/4, G3/8



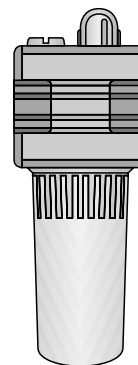
SL



* can also be adjusted for lower oil input.

For single units see 5.12.004E-5.12.008E
 For air preparation units see 5.12.002E, 5.12.003E
 For product group list see 5.12.001E

Data Sheet No. 5.12.007E-1



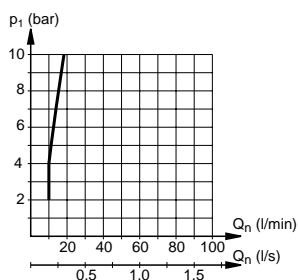
Oil mist lubricator with flow compensation (number of drops per minute is constant)

- easily adaptable to customer's choice of colour and private labelling
- version with NPTF thread



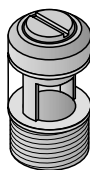
Min. Operating Conditions

Type: SL-1/4



Accessories

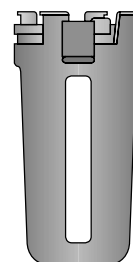
Solvent resistant sight glass



Order No.: PL 07233

Bowl Guard Kit

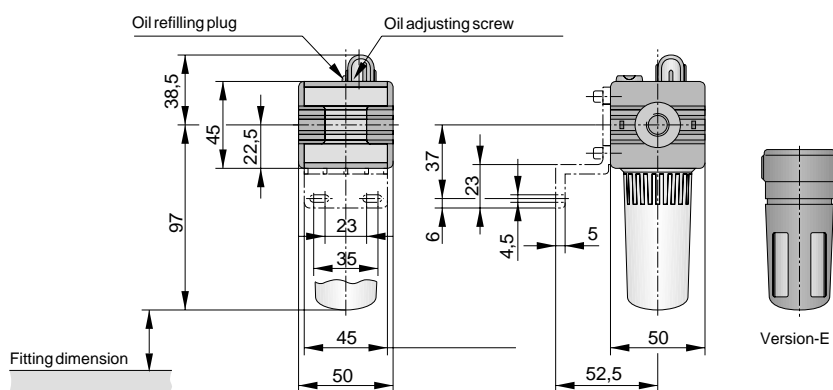
For further details see 5.21.009E



Order No.: PL 16970

Dimensions (mm)

Type: SL-1/8, 1/4, 3/8



Order Instructions

Description	Port size	Type	Order No.
Basic model	G1/8	SL-1/8	PB 46049-000
Basic model	G1/4	SL-1/4*)	PB 46149-000
Basic model	G3/8	SL-3/8	PB 46249-000
With metal bowl	G1/8	SL-1/8-D	PB 46049-003
With metal bowl	G1/4	SL-1/4-D	PB 46149-003
With metal bowl	G3/8	SL-3/8-D	PB 46249-003
With metal bowl (sight glass)	G1/8	SL-1/8-E	PB 46049-004
With metal bowl (sight glass)	G1/4	SL-1/4-E	PB 46149-004
With metal bowl (sight glass)	G3/8	SL-3/8-E	PB 46249-004

Accessories

Description	Order No.
Oil for compressed air 1litre (5.61.050E)	KY 8766
Mounting kit	PL 16965
Coupling kit	PL 16959
Bowl guard kit	PL 16970
Porting block kit G1/4 / 3xG1/8 (inc. coupling kit)	PL 16969
Porting block kit with integrated check valve	PL 17316
Solvent resistant sight glass	PL 07233
3/2 way shut-off valve SDV-1/4XS, 3-fold lockable, spool type	PB 46749-001
3/2 way shut-off valve SDV-3/8XS, 3-fold lockable, spool type	PB 46849-001

*) Alternative: economy lubricator SEL-1/4 on request (data sheet 5.12.008E)

Characteristics		Pressures quoted as gauge pressure			
System		Wick-type micro-mist lubricator*)			
Type		SEL-1/4-3	SEL-1/4-4	SEL-1/4-5	
Port size		G1/4	G1/4	G1/4	
Flow diameter	mm	Ø3	Ø4	Ø5	
Max. oil capacity	cm ³	45			
Oil refilling		Manual			
Installation		Vertical			
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	-20 (further temperatures on request) +50 at 10 bar		
Weight (mass)	kg	0.25			
Pneumatic Characteristics					
Operating pressure range	p_{\min} p_{\max}	bar bar	0 16		
Recommended flow ¹⁾	Q_n	l/min m ³ /h	250 15	450 27	550 33
Minimum flow	Q_{\min}	l/min m ³ /h	100 6	200 12	300 18
Maximum flow	Q_{\max}	l/min m ³ /h	500 30	800 48	1000 60
Minimum oil content for operation ¹⁾	V	cm ³	70	100	200
Oil output		mg/m ³	5-30 depending on application		

¹⁾ at 6.3 bar

*) Use only recommended oils with viscosity VG32 to ISO 3448 (32 mm²/s at 40°C) or HOERBIGER special oil, Order No.: KY 8766 (Cat.-No. 5.61.050E)

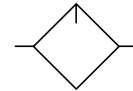
Economy Lubricator

G1/4

(Wick lubricator)



SEL-1/4

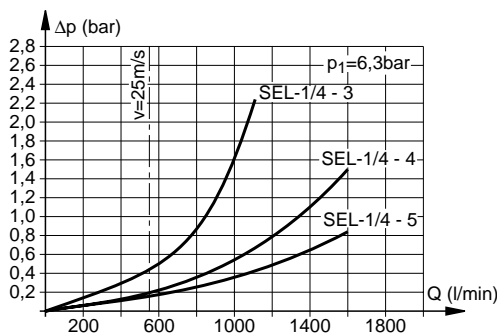


Function

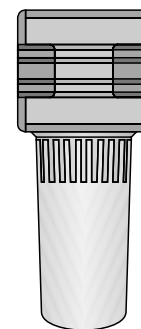
The operation of the new Economy Lubricator is based on the ability of the air stream to pick up very small quantities of oil from the wick.

To ensure best results with different flow rates the lubricators are available with various flow diameters. Please use the above table to select the best SEL lubricator for your application.

Diagram



Oil mist lubricator for very low oil output - has no adjustment and is therefore tamper-proof.



Oil mist output is strongly influenced by operating conditions - please consult us before ordering.

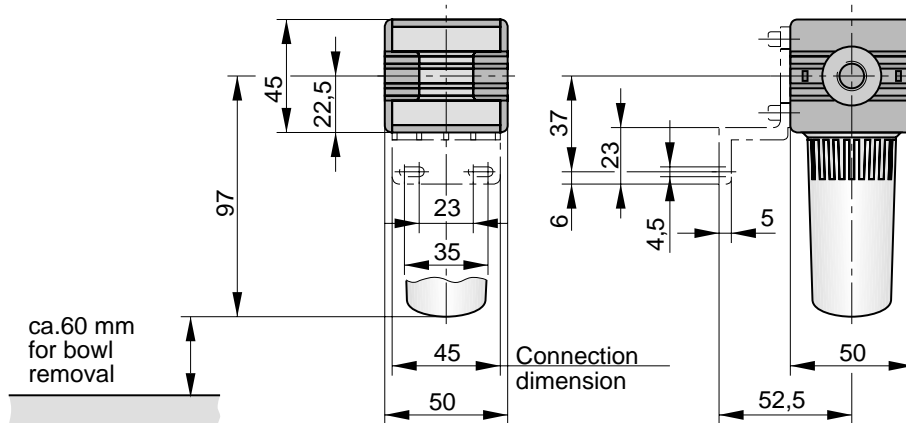
- easily adaptable to customer's choice of colour and private labelling
- version with NPTF thread

For single units see 5.12.004E-5.12.008E
 For air preparation units see 5.12.002E, 5.12.003E
 For product group list see 5.12.001E

Data Sheet No. 5.12.008E-1



Dimensions (mm)



Order Instructions

Description	Port size	Type	Order No.
With flow diameter 3 mm	G1/4	SEL-1/4-3	PB 46449-300
With flow diameter 4 mm	G1/4	SEL-1/4-4	PB 46449-400
With flow diameter 5 mm	G1/4	SEL-1/4-5	PB 46449-500
G1/8 and G3/8 on request			

Accessories

Description	Order No.
Oil for compressed air 1litre	KY 8766
Mounting kit	PL 16965
Coupling kit	PL 16959
Bowl guard kit	PL 16970
Porting block kit G1/4 / 3xG1/8 (inc. coupling kit)	PL 16969
Porting block kit with integrated check valve	PL 17316

Characteristics		Pressures quoted as gauge pressure	
System		Diaphragm-type pressure regulating valve (spring loaded) with flow compensation and secondary pressure relief	
Type		SR-1/4-T	SR-3/8-T
Port size		G1/4	G3/8
Installation		In any position	
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	0 +60 (further temperatures on request)
Weight (mass)		kg	0.3
Pneumatic Characteristic			
Operating pressure range - inlet pressure	$p_{1\min}$ $p_{1\max}$	bar bar	0 16
Operating pressure range - outlet pressure	$p_{2\min}$ $p_{2\max}$	bar bar	0.5 on request 0.5 0.5 ¹⁾ 8 4 15
Min. pressure difference	$p_1 - p_2$	bar	0.2
Hysteresis $p_1=10/p_2=0$		bar	0.5
Hysteresis $p_1=10/p_2=8$		bar	0.4

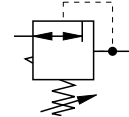
¹⁾ By the use of special springs, the outlet pressure can be precisely regulated in the specified p_2 range

Pressure Regulating Valve

with through p_1 supply port
G1/4, G3/8

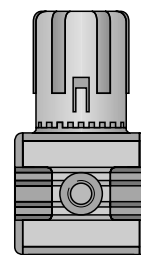


SR-1/4-T..
SR-3/8-T..



Diaphragm-type pressure regulating valve (spring loaded) with secondary pressure relief, inlet pressure and volume compensation handwheel lockable

- easily adaptable to customer's choice of colour and private labelling
- inlet pressure and volume compensation
- version with NPTF thread
- specially developed roller diaphragm



Installation Instructions for Battery Mounting

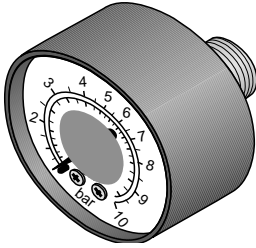


For single units see 5.12.004E-5.12.008E
For air preparation units see 5.12.002E, 5.12.003E
For product group list see 5.12.001E

Data Sheet No. 5.12.009E-1

Accessories

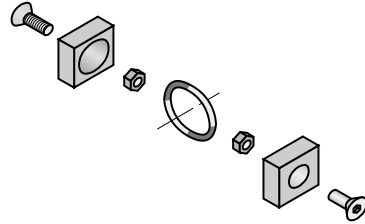
Gauge
 Ø 40 mm, 0-10 bar, G1/8



Order No.: KZ 8891

Accessories

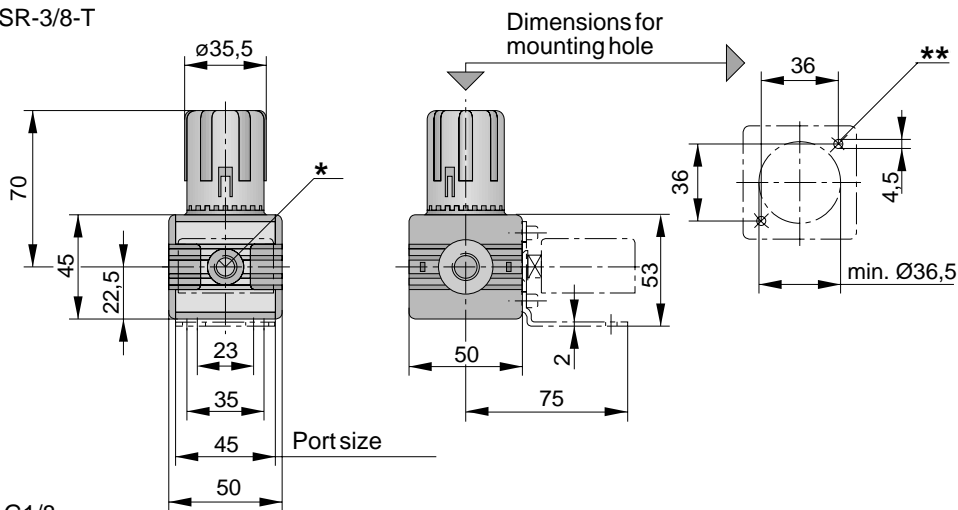
Coupling kit
 for assembly of two single unit



Order No.: PL 16959

Dimensions (mm)

Type: SR-1/4-T, SR-3/8-T



- * Gauge ports G1/8
- ** with through p1 supply port

Order Instructions

Description	Port size	Type	Order No.
Pressure regulating valve	p ₁ - G1/4, through p ₂ - G1/4, outlet	SR-1/4-T-1/4	PB 45449-100
Pressure regulating valve	p ₁ - G3/8, through p ₂ - G1/4, outlet	SR-3/8-T-1/4	PB 45549-100

Accessories

Description	Order No.
Gauge Ø 40, 0-10 bar, G1/8, bottom connection *)	KZ 8820
Mounting kit	PL 16965
Coupling kit	PL 16959
Porting block kit G1/4/3xG1/8 (inc. coupling kit)	PL 16969
Porting block kit with integrated check valve	PL 17316
Keylock	PL 17127
Regulator spring for operating pressure 4 bar	PL 15249
Regulator spring for operating pressure 15 bar	PL 16320
3/2 way shut-off valve SDV-1/4XS, 3-fold lockable, spool type	PB 46749-101
3/2 way shut-off valve SDV-3/8XS, 3-fold lockable, spool type	PB 46849-101

*) For pressure ranges see 5.21.005E

**PNEUMATIC
GROUP**

**AIR PREPARATION UNITS
G3/8-G1/2 (G3/4)
SERIES**

airfitcomfort



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		Port size	max. Q* (l/min)	Recommended flow (l/min)*	Type	Order No.
Air preparation units		G3/8	1900	850	CFRL-3/8	5.19.002E
		G1/2	2000	1900	CFRL-1/2	
		G3/8	1900	850	CKL-3/8	5.19.003E
		G1/2	1950	1900	CKL-1/2	
Filter-regulator		G3/8	3000	850	CK-3/8	5.19.004E
		G1/2	3300	1900	CK-1/2	
Filter-water separator		G3/8	4500	850	CF-3/8	5.19.005E
		G1/2	5000	1900	CF-1/2	
Special filter for air dryers		G3/8	-	850	CFD-3/8	5.19.005E
		G1/2	-	1900	CFD-1/2	
Pressure regulating valve		G3/8	4200	850	CR-3/8	5.19.006E
		G1/2	5700	1900	CR-1/2	
		G1/2	-	1900	XR-15 previous series	5.20.012E
pilot operated pressure regul. valve		G3/8, G1/2	-	850/1900	CRV-10/15	5.55.004E
Oil mist lubricator		G3/8	5000	850	CL-3/8	5.19.011E
		G1/2	5300	1900	CL-1/2	
3/2 way shut-off valve		G3/8	-	850	CDV-3/8	5.21.014E
		G1/2	7500	1900	CDV-1/2	
Soft-start valve		G3/8	3500	850	CDA-3/8	5.95.020E
		G1/2	3700	1900	CDA-1/2	
Stop valve		G3/8	2500	850	CDR-3/8P, CDR-3/8BE	5.95.019E
		G1/2	2900	1900	CDR-1/2P, CDR-1/2E	

* at $p_1 = 6.3$ bar and $\Delta p = 1$ bar bzw. bei $p_1 = 10$ bar auf $p_2 = 6.3$ bar, $\Delta p = 1$ bar see individual data sheets.

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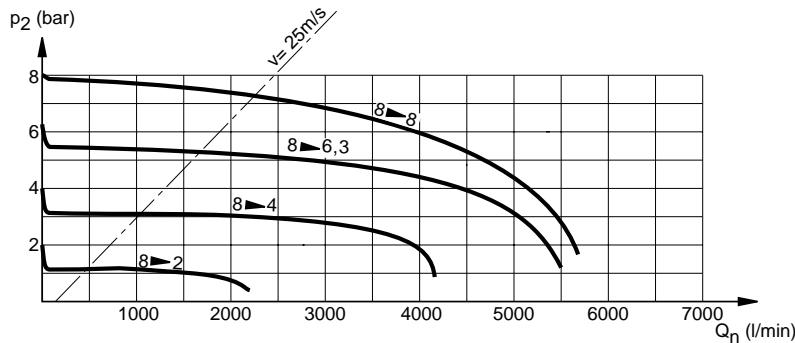
The right to introduce technical modifications is reserved

Characteristics		Pressures quoted as gauge pressure	
System		Air preparation unit comprising filter-water-separator, diaphragm-type pressure regulating valve and oil mist lubricator *)	
Type		CFRL-3/8	CFRL-1/2
Port size		G3/8	G1/2
Max. condensate capacity	cm ³	57	
Condensate drainage		Standard: manual, semiautomatic with pressure relief fully automatic (float type)	
Max. oil capacity	cm ³	112	
Oil refilling		Standard: manual - also during operation	
Installation		Vertical	
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	0 +50 at 10 bar (further temperatures on request)
Weight (mass)	kg	1.85	
Pneumatic Characteristic¹⁾			
Operating pressure range - inlet pressure	$p_{1\min}$	bar	0
	$p_{1\max}$	bar	16
Operating pressure range - outlet pressure	$p_{2\min}$	bar	0.5 on request 0.5 0.5 ³⁾
	$p_{2\max}$	bar	8 4 10
Recommended flow²⁾	Q_n	l/min m ³ /h	850 51
Maximum flow⁴⁾	Q_{\max}	l/min m ³ /h	1900 114
			1900 114

- 1) For further characteristics see 5.19.011E, 5.19.015E, 5.19.016E
 2) at 6 bar and 25 m/s
 3) By the use of special springs, the outlet pressure can be precisely regulated in the specified p_2 range
 4) at $p_1 = 10$ bar and $p_2 = 6.3$ bar, $\Delta p = 1$ bar
 *) Use only recommended oils with viscosity VG32 to ISO 3448 (32 mm²/s at 40°C) or HOERBIGER special oil, Order No.: KY 8766 (Cat.-No. 5.61.050E)

Flow Characteristics

Type: CFRL-1/2



For single units see 5.19.004E-5.19.011E
 For air preparation units see 5.19.002E, 5.19.003E
 For product group list see 5.19.001E

Data Sheet No. 5.19.002E-1

Air Preparation Unit

G3/8, G1/2

airfit comfort

CFRL...

Air preparation unit comprising:

- Filter-water-separator
- Diaphragm-type pressure regulating valve
- Oil mist lubricator
- Gauge
- Mounting bracket

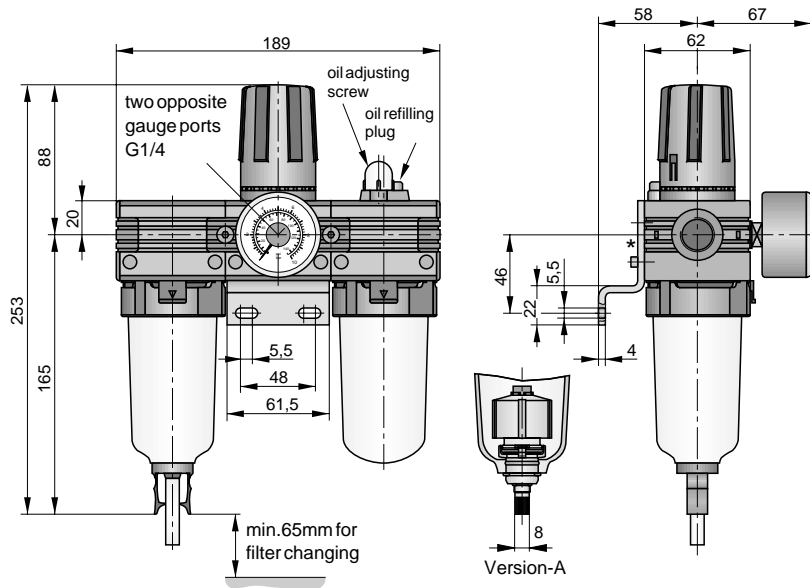
- Easy and quick installation of mounting kit
- Suitable for direct wall mounting
- Modern design
- Version with NPTF thread



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Dimensions (mm)

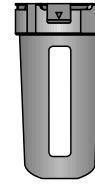
Type: CFRL-1/2



*) On delivery the plug screw is not assembled.

Accessories

Bowl guard kit
For further details see 5.21.013E



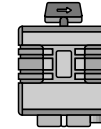
Order No.: PL 17680

Porting block kit
to provide unlubricated air.
For further details see 5.21.012E



Order No.: PL 17607

3/2 way shut-off valve



Order No.: PB 56849-000
PB 56949-000

Order Instructions

Description	Port size	Type	Order No.
Basic model	G3/8	CFRL-3/8	PB 58249-000
Basic model	G1/2	CFRL-1/2	PB 58349-000
With semiautomatic drainage	G3/8	CFRL-3/8-H	PB 58249-001
With semiautomatic drainage	G1/2	CFRL-1/2-H	PB 58349-001
With automatic drainage	G3/8	CFRL-3/8-A	PB 58249-002
With automatic drainage	G1/2	CFRL-1/2-A	PB 58349-002
With metal bowl	G3/8	CFRL-3/8-D	PB 58249-003
With metal bowl	G1/2	CFRL-1/2-D	PB 58349-003
With metal bowl (sight glass)	G3/8	CFRL-3/8-E	PB 58249-004
With metal bowl (sight glass)	G1/2	CFRL-1/2-E	PB 58349-004
With metal bowl and automatic drainage	G3/8	CFRL-3/8-AD	PB 58249-005
With metal bowl and automatic drainage	G1/2	CFRL-1/2-AD	PB 58349-005
With metal bowl (sight glass) and automatic drainage	G3/8	CFRL-3/8-AE	PB 58249-006
With metal bowl (sight glass) and automatic drainage	G1/2	CFRL-1/2-AE	PB 58349-006

Accessories

Description	Order No.
Bowl guard kit	PL 17680
Porting block kit G1/2/G1/4	PL 17607
Porting block kit G1/2 with holes for mounting pressure switch (6.00.003E)	PL 17609
Regulator spring for operating pressure 4 bar	PL 17748
Regulator spring for operating pressure 10 bar	PL 17705
3/2 way shut-off valve (spool type) CDV-3/8-XS/CDV-1/2-XS	PB 56849-000, PB 56949-000
Coupling kit	PL 17608
Solvent resistant sight glass	PL 07233
Adapter kit G3/4	PL 17682

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The right to introduce technical modifications is reserved

Characteristics		Pressures quoted as gauge pressure	
System		Air preparation unit comprising filter-regulator and oil mist lubricator *)	
Type		CKL-3/8	CKL-1/2
Port size		G3/8	G1/2
Max. condensate capacity	cm ³	57	
Condensate drainage		Standard: manual, semiautomatic with pressure relief fully automatic (float type)	
Max. oil capacity	cm ³	112	
Oil refilling		Standard: manual - also during operation	
Installation		Vertical	
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	0 +50 at 10 bar (further temperatures on request)
Weight (mass)	kg	1.5	
Pneumatic Characteristic¹⁾			
Operating pressure range - inlet pressure	$p_{1\min}$	bar	0
	$p_{1\max}$	bar	16
Operating pressure range - outlet pressure	$p_{2\min}$	bar	0.5 on request
	$p_{2\max}$	bar	8 4 10 0.5 ³⁾
Recommended flow ²⁾	Q_n	l/min m ³ /h	850 51 1900 114
Maximum flow ⁴⁾	Q_{\max}	l/min m ³ /h	1900 114 1950 117

1) For further characteristics see 5.19.008E, 5.19.015E

2) at 6 bar and 25 m/s

3) By the use of special springs, the outlet pressure can be precisely regulated in the specified p_2 range


4) at $p_1 = 10$ bar and $p_2 = 6.3$ bar, $\Delta p = 1$ bar

*) Use only recommended oils with viscosity VG32 to ISO 3448 (32 mm²/s at 40°C) or HOERBIGER special oil, Order No.: KY 8766 (Cat.-No. 5.61.050E)

Air Preparation Unit

G3/8, G1/2

airfitcomfort

CKL... 

Air preparation unit comprising:

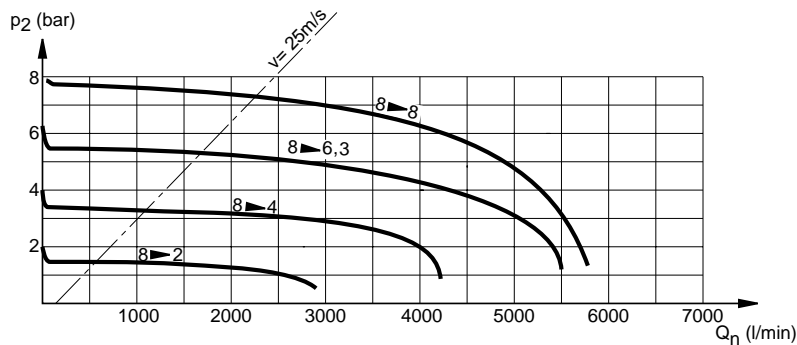
Filter-water-separator
Oil mist lubricator
Gauge
Mounting bracket

- Easy and quick installation of mounting kit
- Suitable for direct wall mounting
- Modern design
- Version with NPTF thread



Flow Characteristics

Type: CKL-1/2



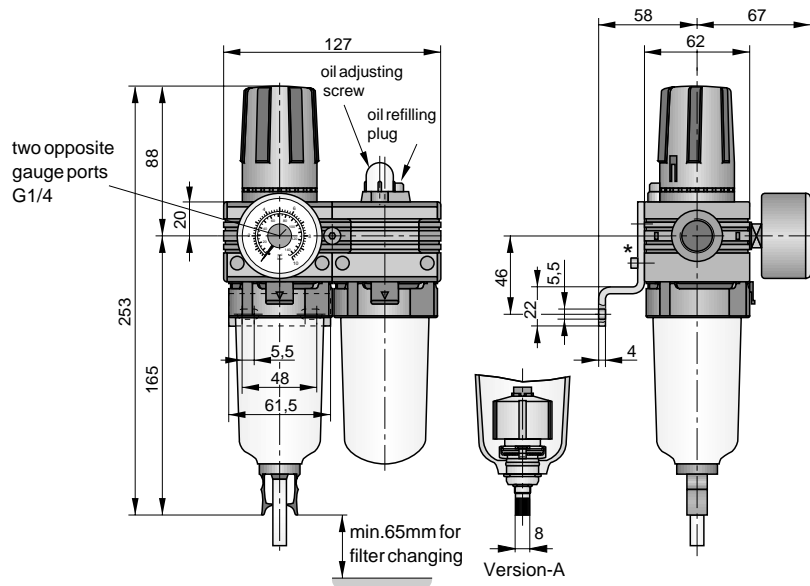
For single units see 5.19.004E-5.19.011E
For air preparation units see 5.19.002E, 5.19.003E
For product group list see 5.19.001E

Data Sheet No. 5.19.003E-1

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Dimensions (mm)

Type: CKL-1/2



*) On delivery the plug screw is not assembled.

Accessories

Bowl guard kit
For further details see 5.21.013E



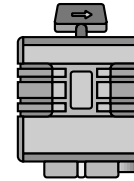
Order No.: PL 17680

Porting block kit
to provide unlubricated air.
For further details see 5.21.012E



Order No.: PL 17607

3/2 way shut-off valve



Order No.: PB 56849-000
PB 56949-000

Order Instructions

Description	Port size	Type	Order No.
Basic model	G3/8	CKL-3/8	PB 58549-000
Basic model	G1/2	CKL-1/2	PB 58649-000
With semiautomatic drainage	G3/8	CKL-3/8-H	PB 58549-001
With semiautomatic drainage	G1/2	CKL-1/2-H	PB58649-001
With automatic drainage	G3/8	CKL-3/8-A	PB 58549-002
With automatic drainage	G1/2	CKL-1/2-A	PB 58649-002
With metal bowl	G3/8	CKL -3/8-D	PB 58549-003
With metal bowl	G1/2	CKL-1/2-D	PB 58649-003
With metal bowl (sight glass)	G3/8	CKL-3/8-E	PB 58549-004
With metal bowl (sight glass)	G1/2	CKL-1/2-E	PB 58649-004
With metal bowl and automatic drainage	G3/8	CKL-3/8-AD	PB 58549-005
With metal bowl and automatic drainage	G1/2	CKL-1/2-AD	PB 58649-005
With metal bowl (sight glass) and automatic drainage	G3/8	CKL-3/8-AE	PB 58549-006
With metal bowl (sight glass) and automatic drainage	G1/2	CKL-1/2-AE	PB 58649-006

Accessories

Description	Order No.
Bowl guard kit	PL 17680
Porting block kit G1/2/G1/4	PL 17607
Porting block kit G1/2 with holes for mounting pressure switch (6.00.003E)	PL 17609
Regulator spring for operating pressure 4 bar	PL 17748
Regulator spring for operating pressure 10 bar	PL17705
3/2 way shut-off valve (spool type) CDV-3/8-XS/CDV-1/2-XS	PB 56849-000, PB 56949-000
Coupling kit	PL 17608
Solvent resistant sight glass	PL 07233
Adapter kit G3/4	PL 17682

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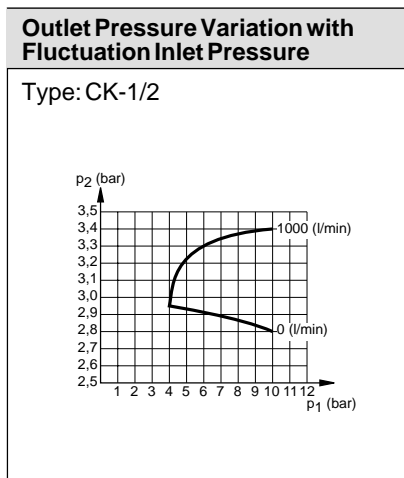
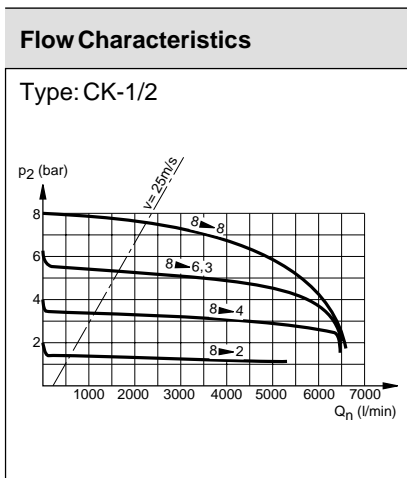
The right to introduce technical modifications is reserved

Characteristics		Pressures quoted as gauge pressure	
System		Cyclone system with filter element, combined with diaphragm-type pressure regulating valve (spring loaded) with flow compensation and secondary pressure relief	
Type		CK-3/8	CK-1/2
Port size		G3/8	G1/2
Pore size of filter element	µm	Standard: 30 (white) 5 (yellow)	
Max. condensate capacity	cm ³	57	
Condensate drainage		Standard: manual semiautomatic with pressure relief or fully automatic (float-type)	
Installation		Vertical	
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	0 +50 at 10 bar (further temperatures on request)
Weight (mass)		kg	0.75
Pneumatic Characteristic			
Operating pressure range - inlet pressure	$p_{1\min}$ $p_{1\max}$	bar bar	0 16
Operating pressure range - outlet pressure	$p_{2\min}$ $p_{2\max}$	bar bar	0.5 on request 8 0.5 0.5 ²⁾ 4 10
Min. pressure difference	$p_1 - p_2$	bar	0.2
Hysteresis $p_1=10/p_2=0$ Hysteresis $p_1=10/p_2=8$		bar bar	0.9 0.7
Recommended flow ¹⁾	Q_n	l/min m ³ /h	850 51 1900 114
Maximum flow ³⁾	Q_{\max}	l/min m ³ /h	3000 180 3300 198
Degree of moisture separation at recommended flow	η	%	95 95

¹⁾ at $p_2 = 6$ bar and 25 m/s

²⁾ By the use of special springs, the outlet pressure can be precisely regulated in the specified p_2 range

³⁾ at $p_1 = 10$ bar and $p_2 = 6.3$ bar, $\Delta p = 1$ bar



For single units see 5.19.004E-5.19.011E
For air preparation units see 5.19.002E, 5.19.003E
For product group list see 5.19.001E

Data Sheet No. 5.19.004E-1

Filter-Regulator

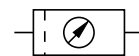
G3/8, G1/2

Pressure regulating valve with filter-water-separator

Degree of moisture separation 95%

airfit comfort

CK...



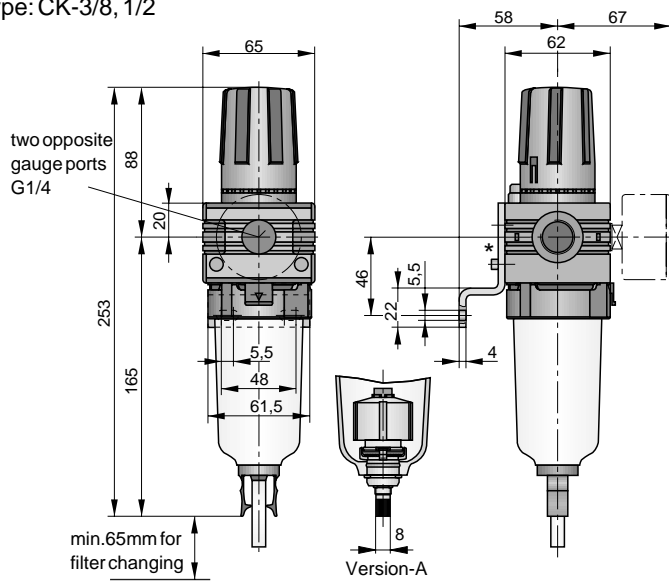
Filter-regulator with flow compensation and secondary pressure relief, hand wheel lockable

- Easy and quick installation of mounting kit
- Suitable for direct wall mounting
- Modern design
- Version with NPTF thread

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Dimensions (mm)

Type: CK-3/8, 1/2



*) On delivery the plug screw is not assembled.

Accessories

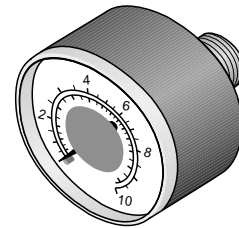
Bowl guard kit

For further details see 5.21.013E



Order No.: PL 17680

Gauge



Order No.: KG 8011

Order Instructions

Description	Port size	Type	Order No.
Basic model (30 µm)	G3/8	CK-3/8	PB 55849-000
Basic model (30 µm)	G1/2	CK-1/2	PB 55949-000
With filter element 5 µm	G3/8	CK-3/8-5	PB 55849-016
With filter element 5 µm	G1/2	CK-1/2-5	PB 55949-016
With semiautomatic drainage	G3/8	CK-3/8-H	PB 55849-001
With semiautomatic drainage	G1/2	CK-1/2-H	PB 55949-001
With automatic drainage	G3/8	CK-3/8-A	PB 55849-002
With automatic drainage	G1/2	CK-1/2-A	PB 55949-002
With metal bowl	G3/8	CK-3/8-D	PB 55849-003
With metal bowl	G1/2	CK-1/2-D	PB 55949-003
With metal bowl (sight glass)	G3/8	CK-3/8-E	PB 55849-004
With metal bowl (sight glass)	G1/2	CK-1/2-E	PB 55949-004
With metal bowl and automatic drainage	G3/8	CK-3/8-AD	PB 55849-005
With metal bowl and automatic drainage	G1/2	CK-1/2-AD	PB 55949-005
With metal bowl (sight glass) and automatic drainage	G3/8	CK-3/8-AE	PB 55849-006
With metal bowl (sight glass) and automatic drainage	G1/2	CK-1/2-AE	PB 55949-006

Accessories

Description	Order No.
Bowl guard kit	PL 17680
Gauge Ø 50, 0-10 bar, G1/4	KG 8011
Mounting kit	PL 17518
Porting block kit G1/2/G1/4	PL 17607
Porting block kit G1/2 with holes for mounting pressure switch (6.00.003E)	PL 17609
Regulator spring for operating pressure 4 bar	PL 17748
Regulator spring for operating pressure 10 bar	PL 17705
3/2 way shut-off valve (spool type) CDV-3/8-XS / CDV-1/2-XS	PB 56849-000, PB 56949-000
Coupling kit	PL 17608
Solvent resistant sight glass	PL 07233
Adapter kit G3/4	PL 17682

Characteristics		Pressures quoted as gauge pressure				
System			Cyclone system and filter element		Dust filter	
Type			CF-3/8	CF-1/2	CFD-3/8 CFD-1/2	
Port size			G3/8	G1/2	G3/8 G1/2	
Max. condensate capacity		cm ³	57			
Pore size of filter element		µm	Standard: 30: white 5: yellow		Standard: 1	
Condensate drainage			Standard: manual, semiautomatic with pressure relief or fully automatic		manual	
Installation			Vertical			
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	0 +50 at 10 bar (further temperatures on request)			
Weight (mass)		kg	0.55			
Pneumatic Characteristic						
Operating pressure range	p_{\min} p_{\max}	bar bar	0 16			
Recommended flow ¹⁾	Q_n	l/min m ³ /h	850 51	1900 114	850 51	1900 114
Maximum Flow ²⁾	Q_{\max}	l/min m ³ /h	4500 270	5000 300	4130 248	4820 289
Degree of moisture separation at recommended flow	η	%	95		only solid particles >99% related to 1 µm	

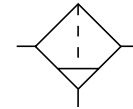
¹⁾ at 6 bar and 25 m/s
²⁾ at $p_1 = 6.3 \text{ bar}$, $\Delta p = 1 \text{ bar}$

Filter-Water-Separator, Dust Filter G3/8, G1/2

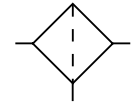
Degree of moisture separation 95%



CF



CFD



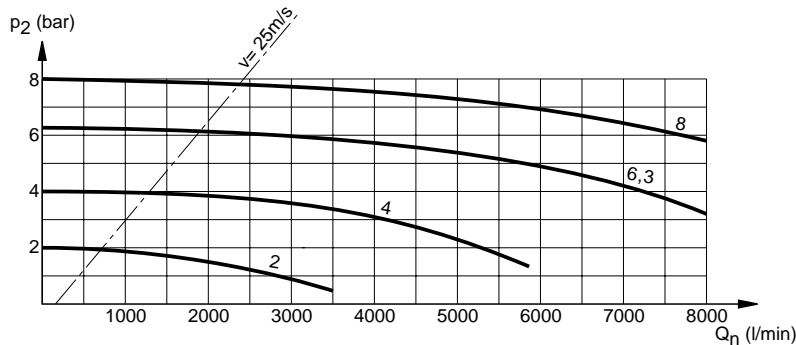
CF: Filter-water-separator with cyclone system and filter element.

CFD: Dust filter with large filter surface for long service life. For compressed air systems with air dryers.

- Easy and quick installation of mounting kit
- Suitable for direct wall mounting
- Modern design
- Version with NPTF thread

Flow Characteristics

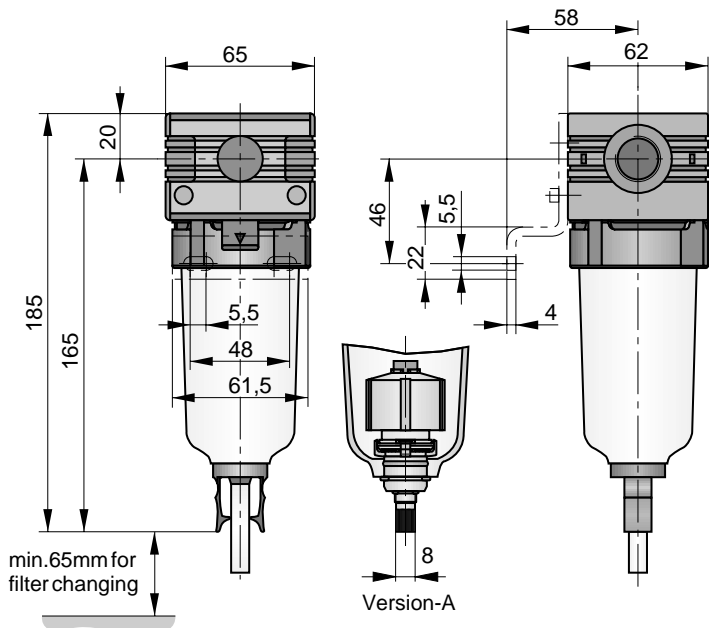
Type: CF-1/2



For single units see 5.19.004E-5.19.011E
 For accessories see 5.21.012E-5.21.013E
 For air preparation units see 5.19.002E, 5.19.003E
 For product group list see 5.19.001E

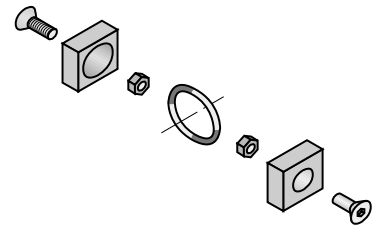
Dimensions (mm)

Type: CF-3/8, CF-1/2



Accessories

Coupling kit



Order No.: PL 17608

Bowl guard kit

For further details see 5.21.013E



Order No.: PL 17680

Order Instructions

Description	Port size	Type	Order No.
Basic model (30 µm)	G3/8	CF-3/8	PB 55249-000
Basic model (30 µm)	G1/2	CF-1/2	PB 55349-000
With filter element 5 µm	G3/8	CF-3/8-5	PB 55249-016
With filter element 5 µm	G1/2	CF-1/2-5	PB 55349-016
With semiautomatic drainage	G3/8	CF-3/8-H	PB 55249-001
With semiautomatic drainage	G1/2	CF-1/2-H	PB 55349-001
With automatic drainage	G3/8	CF-3/8-A	PB 55249-002
With automatic drainage	G1/2	CF-1/2-A	PB 55349-002
With metal bowl	G3/8	CF-3/8-D	PB 55249-003
With metal bowl	G1/2	CF-1/2-D	PB 55349-003
With metal bowl (sight glass)	G3/8	CF-3/8-E	PB 55249-004
With metal bowl (sight glass)	G1/2	CF-1/2-E	PB 55349-004
With metal bowl and automatic drainage	G3/8	CF-3/8-AD	PB 55249-005
With metal bowl and automatischer Kondensatentleerung	G1/2	CF-1/2-AD	PB 55349-005
With metal bowl (sight glass) and automatic drainage	G3/8	CF-3/8-AE	PB 55249-006
With metal bowl (sight glass) and automatic drainage	G1/2	CF-1/2-AE	PB 55349-006
With filter element 1 µm	G3/8	CFD-3/8-1	PB 55249-070
With filter element 1 µm	G1/2	CFD-1/2-1	PB 55349-070

Accessories

Description	Order No.
Bowl guard kit	PL17680
Mounting kit	PL 17518
Coupling kit	PL 17608
Porting block kit G1/2/G1/4	PL 17607
Porting block kit G1/2 with holes for mounting pressure switch (6.00.003E)	PL 17609
3/2 way shut-off valve (spool type) CDV-3/8-XS / CDV-1/2-XS	PB 56849-000, PB 56949-000
Adapter kt G3/4	PL 17682

Characteristics		Pressures quoted as gauge pressure	
System		Diaphragm-type pressure regulating valve (spring loaded) with flow compensation and secondary pressure relief	
Type		CR-3/8	CR-1/2
Port size		G3/8	G1/2
Installation		In any position	
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	0 +60 (further temperatures on request)
Weight (mass)		kg	0.55
Pneumatic Characteristic			
Operating pressure range - inlet pressure	$p_{1\min}$ $p_{1\max}$	bar bar	0 16
Operating pressure range - outlet pressure	$p_{2\min}$ $p_{2\max}$	bar bar	0.5 on request 0.5 0.5 ²⁾ 8 4 10
Min. pressure difference	$p_1 - p_2$	bar	0.2
Hysteresis $p_1=10/p_2=0$		bar	0.9
Hysteresis $p_1=10/p_2=8$		bar	0.7
Recommended flow ¹⁾	Q_n	l/min m ³ /h	850 51 1900 114
Maximum flow ³⁾	Q_{\max}	l/min m ³ /h	4200 252 5700 342

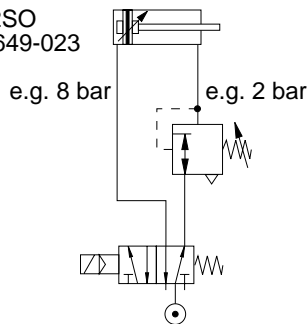
¹⁾ at $p_2 = 6$ bar and 25 m/s

²⁾ By the use of special springs, the outlet pressure can be precisely regulated in the specified p_2 range

³⁾ at $p_1 = 10$ bar and $p_2 = 6.3$ bar, $\Delta p = 1$ bar

Pressure Regulator with High Relief Capacity

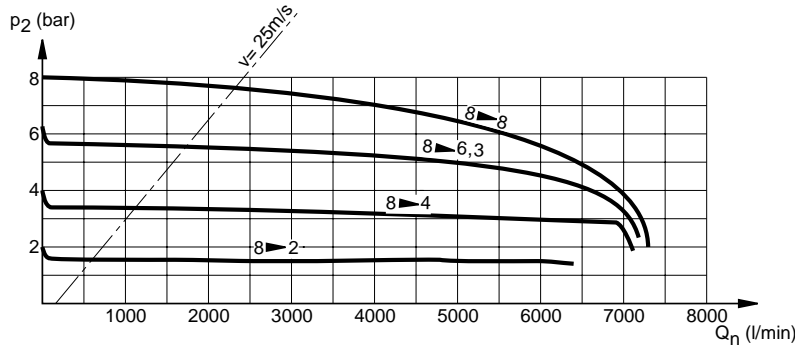
Type: CR-1/2SO
PB 55649-023



Example:
To regulate the pressure in the direction of the stroke, install the regulator as shown in the diagram. The pressure relief uses the full cross-section of the valve, allowing the cylinder to travel at full speed.

Flow Characteristics

Type: CR-1/2



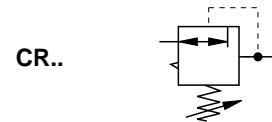
For single units see 5.19.004E-5.19.011E
For Accessories see 5.21.012E-5.21.013E
For air preparation units see 5.19.002E, 5.19.003E
For product group list see 5.19.001E

Data Sheet No. 5.19.006E-1

Pressure Regulating Valve

G3/8, G1/2

airfit comfort



Diaphragm-type pressure regulating valve (spring loaded) flow compensation and with secondary pressure relief, handwheel lockable



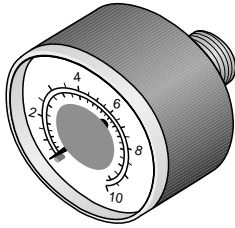
- Easy and quick installation of mounting kit
- Suitable for direct wall mounting
- Modern design
- Version with NPTF thread

HOERBIGER
ORIGA

Accessories

Gauge

Ø50, 0-10 bar, G1/4

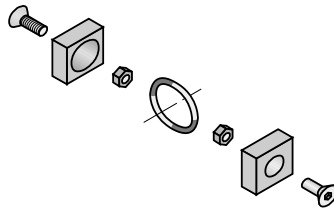


Order No.: KG 8011

Accessories

Coupling kit

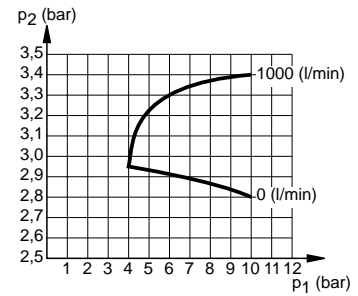
for connecting 2 single units



Order No.: PL 17608

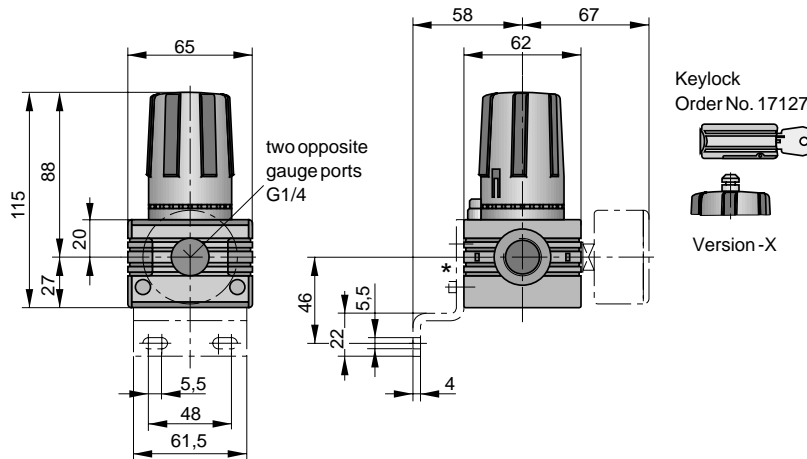
Outlet Pressure Variation with Fluctuating Inlet Pressure

Type: CR-1/2



Dimensions (mm)

Type: CR-1/2



*) On delivery the plug screw is not assembled.

Order Instructions

Description	Port size	Type	Order No.
Basic model	G3/8	CR-3/8	PB 55549-000
	G1/2	CR-1/2	PB 55649-000
With adapter for keylock	G3/8	CR-3/8-X	PB 55549-006
	G1/2	CR-1/2-X	PB 55649-006

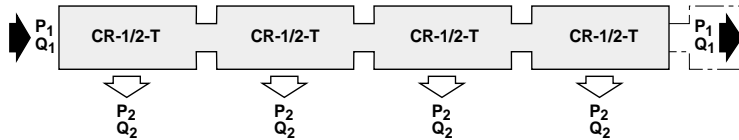
Accessories

Description	Order No.
Gauge Ø50, 0-10 bar, G1/4	KG 8011
Mounting kit	PL 17518
Coupling kit	PL 17608
Porting block kit G1/2/G1/4	PL 17607
Porting block kit G1/2 with holes for mounting pressure switch (6.00.003E)	PL 17609
Keylock	PL 17127
Regulator spring for operating pressure 4 bar	PL 17748
Regulator spring for operating pressure 10bar	PL 17705
3/2 way shut-off valve CDV-3/8-XS / CDV-1/2-XS, spool type	PB 56849-000, PB 56949-000
Adapter kit G3/4	PL 17682

Characteristics		Pressures quoted as gauge pressure	
System			Diaphragm-type pressure regulating valve (spring loaded) with flow compensation and secondary pressure relief
Type			CR-1/2-T
Port size			G1/2
Installation			In any position
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	0 +60 (further temperatures on request)
Weight (mass)		kg	0.55
Pneumatic Characteristic			
Operating pressure range - inlet pressure	$p_{1\min}$ $p_{1\max}$	bar bar	0 16
Operating pressure range - outlet pressure	$p_{2\min}$ $p_{2\max}$	bar bar	0.5 on request 0.5 0.5 ¹⁾ 8 4 10
Min. pressure difference	$p_1 - p_2$	bar	0.2
Hysteresis $p_1=10/p_2=0$		bar	0.9
Hysteresis $p_1=10/p_2=8$		bar	0.7

¹⁾ By the use of special springs, the outlet pressure can be precisely regulated in the specified p_2 range

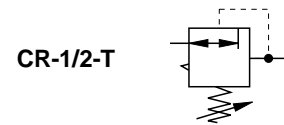
Installation Instructions for Battery Mounting



Pressure Regulating Valve

with through p_1 supply port
G1/2

airfitcomfort



Diaphragm-type pressure regulating valve (spring loaded) flow compensation and with secondary pressure relief, handwheel lockable

- With through p_1 supply port
- Infinitely expandable
- Controlled
- Easy and quick installation of mounting kit
- Suitable for direct wall mounting
- Modern design
- Version with NPTF thread



For single units see 5.19.004E-5.19.011E
 For air preparation units see 5.19.002E, 5.19.003E
 For product group list see 5.19.001E

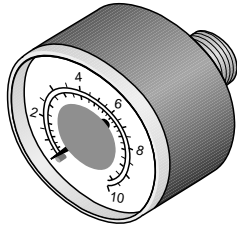
Data Sheet No. 5.19.007E-1

HOERBIGER
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Accessories

Gauge

Ø 50, 0-10 bar, G1/4

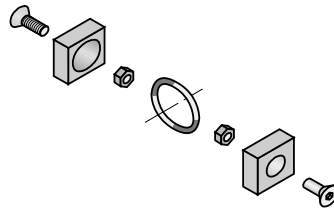


Order No.: KG 8011

Accessories

Coupling kit

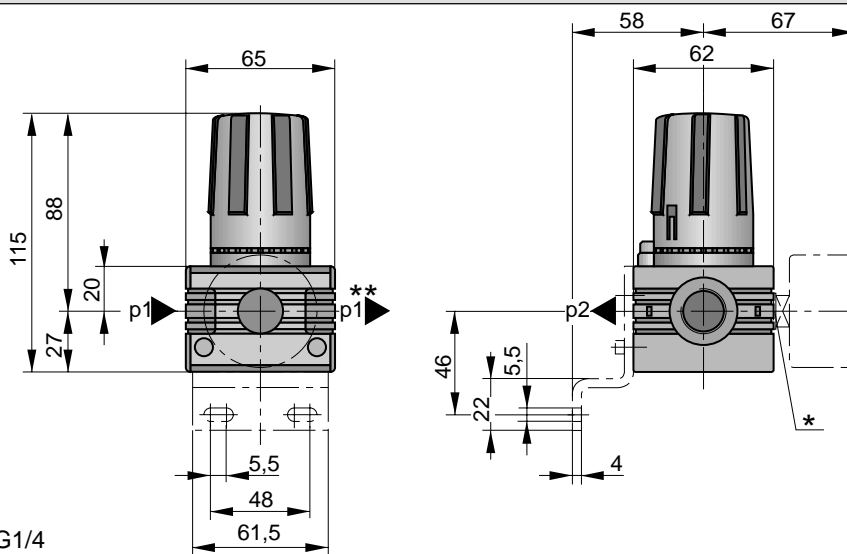
for connecting 2 single units



Order No.: PL 17608

Dimensions (mm)

Type: CR-1/2-T



* Gauge connection G1/4
 ** with through p_1 supply port

Order Instructions

Description	Port size	Type	Order No.
Pressure regulating valve	p_1 -G1/2, through p_2 -G3/8, outlet	CR-1/2-T 3/8	PB 55649-101
	p_2 -G1/2, outlet	CR-1/2-T 1/2	PB 55649-100

Accessories

Description	Order No.
Gauge Ø 50, 0-10 bar, G1/4	KG 8011
Gauge, Ø 50, 0-10 bar, G1/4, bottom connection	KZ 8821
Mounting kit	PL 17518
Coupling kit	PL 17608
Porting block kit G1/2/G1/4	PL 17607
Porting block kit G1/2 with holes for mounting pressure switch (6.00.003E)	PL 17609
Regulator spring for operating pressure 4 bar	PL 17748
Regulator spring for operating pressure 10 bar	PL 17705
3/2-Wege-Absperrventil (spool type) CDV-3/8-XS / CDV-1/2-XS	PB 56849-000, PB 56949-000
Adapter kit G3/4	PL 17682

Characteristics		Pressures quoted as gauge pressure		
System			Specially designed pressure regulating valve with maximal pressure limiter, easily adjustable by customer.	
Regulator spring		bar	8 (standard)	4
Operating pressure range - outlet pressure	$p_{2 \text{ min}}$	bar	0.5	0.5
	$p_{2 \text{ max}}$	bar	2 – 7.5 (0.5 – 6.2)	1.5 – 4
For further technical data and information, please refer to the data sheet of the standard pressure regulator CR-..., data sheet no. 5.19.006E				

Installation Instructions

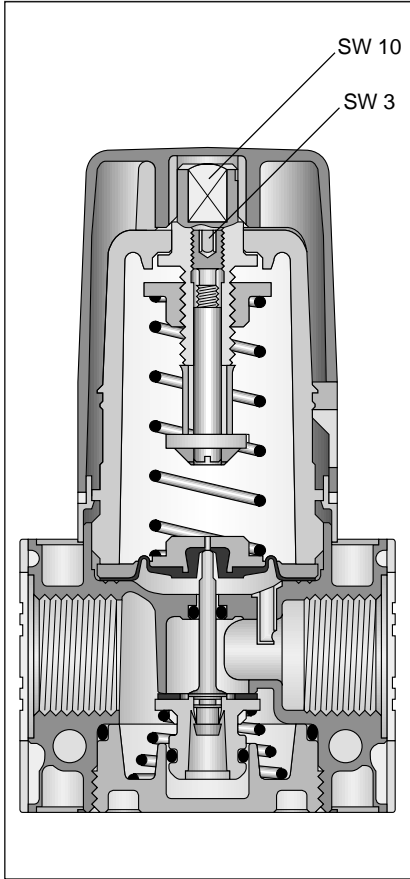
This pressure regulating valve was specially designed to allow the customer to limit the maximal pressure of his system.
the handwheel is not assembled on delivery, and can only be mounted after the pressure has been set and tested. The pressure limit cannot be changed without disassembly of the handwheel.

Pressure adjustment:

After the unit is installed and air pressure is applied, maximum pressure can be set with a spanner size 10.
When the pressure is set correctly, keep the spanner in place and use an Allan key size 3 to turn the adjustment screw clockwise until it is fixed.
Once the screw is fixed, do not tighten it unnecessarily.
Lower the pressure with the spanner, and then raise it to the set limit.
Once the maximal pressure is set ok, the handwheel can be snapped into position. Push the handwheel over the bell and gently turn it left and right, so that the square part of the pressure adjustment system falls into place.
Next, push the wheel further down, until it snaps into place.
The wheel is now locked in position and the pressure can be adjusted in the set range.

Please note the installation instructions that are included with delivery of each of our air preparation units.

Function

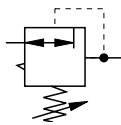


Pressure Regulating Valve

with customer adjustable maximal pressure limiter "airfix"
G3/8, G1/2

airfit comfort

CR-3/8-L
CR-1/2-L



Patented

Diaphragm-type pressure regulating valve (spring loaded) flow compensation and with secondary pressure relief, handwheel lockable



- Easy and quick installation of mounting kit
- Suitable for direct wall mounting
- Modern design
- Version with NPTF thread

Order Instructions

Description	Port size	Type	Order No.
Pressure regulating valve with pressure limiter "AIRFIX"	G3/8	CR-3/8-L	PB 55549-005
	G1/2	CR-1/2-L	PB 55649-005
– Option: p_2 0.5 – 6.2 bar	G3/8	CR-3/8-L-SO	PB 55549-028
	G1/2	CR-1/2-L-SO	PB 55649-028

Accessories	
Regulator spring 4 bar	PL 17748
Adapter kit G3/4	PL 17682

For single units see 5.19.004E-5.19.011E
For air preparation units see 5.19.002E, 5.19.003E
For product group list see 5.19.001E

Data Sheet No. 5.19.008E



A1P545E00KY00X

The right to introduce technical modifications is reserved

A1P546E00KY00X

The right to introduce technical modifications is reserved

Characteristics		Pressures quoted as gauge pressure	
System		Oil mist lubricator with flow compensation	
Type		CL-3/8	CL-1/2
Port size		G3/8	G1/2
Oil/air ratio		Degressive (number of drops per minute remains constant)	
Max. oil capacity	cm ³	112	
Oil refilling*)		Standard: manual - also during operation	
Installation		Vertical	
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	0 +50 at 10 bar (further temperatures on request)
Weight (mass)	kg	0.55	
Pneumatic Characteristic			
Operating pressure range	p_{\min}	bar	0
	p_{\max}	bar	16
Recommended flow ¹⁾	Q_n	l/min m ³ /h	850 51
Maximum Flow ²⁾	Q_{\max}	l/min m ³ /h	5000 300
Recommended operating range	Q_n	l/min m ³ /h	33-833 2-50

¹⁾ at 6 bar and 25 m/s

²⁾ at $p_1 = 6,3$ bar, $\Delta p = 1$ bar

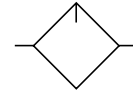
*) Use only recommended oils with viscosity VG32 to ISO 3448 (32 mm²/s at 40°C) or HOERBIGER special oil, Order No.: KY 8766 (Cat.-No. 5.61.050E)

Oil Mist Lubricator

G3/8, G1/2

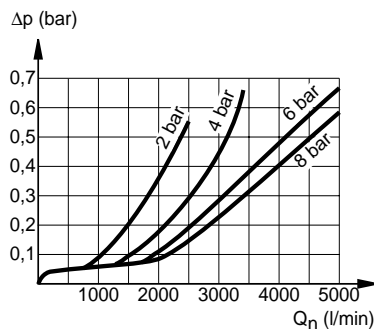
airfit comfort

CL



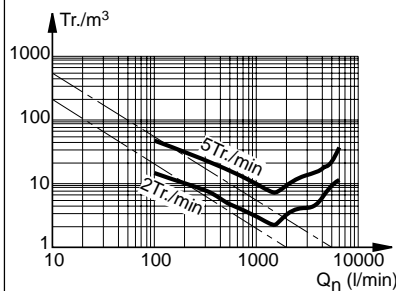
Flow Characteristics

Type: CL-1/2



Oil/Air Ratio

Type: CL-1/2



Oil mist lubricator with flow compensation (number of drops per minute is constant)

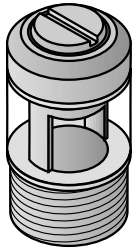
- Easy and quick installation of mounting kit
- Suitable for direct wall mounting
- Modern design
- Version with NPTF thread

For single units see 5.19.004E-5.19.011E
 For Accessories see 5.21.012E-5.21.013E
 For air preparation units see 5.19.002E, 5.19.003E
 For product group list see 5.19.001E

HOERBIGER
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Accessories

Solvent resistant sight glass



Order No.: PL 07233

Accessories

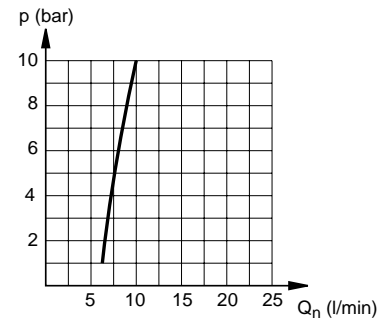
Bowl Guard Kit For further details see 5.21.013E



Order No.: PL 17680

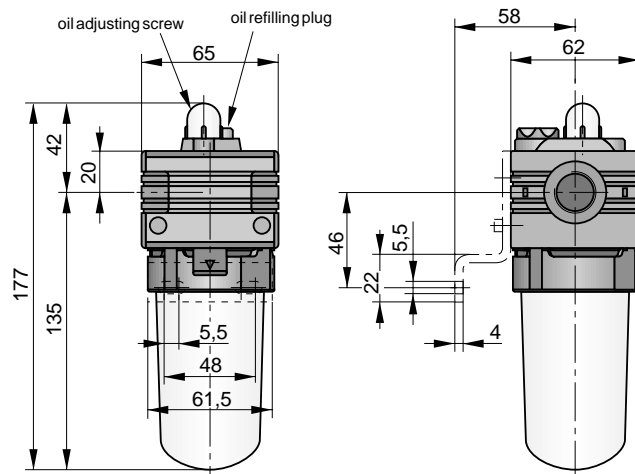
Min. Operating Conditions

Type: CL-1/2



Dimensions (mm)

Type: CL-1/2



Order Instructions

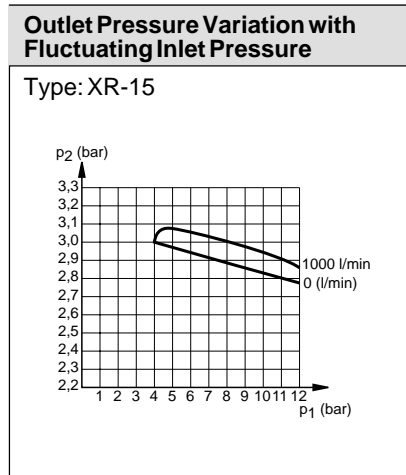
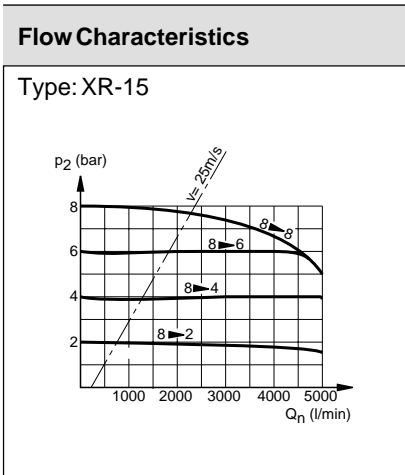
Description	Portsize	Type	Order No.
Basic model	G3/8	CL-3/8	PB 56249-000
Basic model	G1/2	CL-1/2	PB 56349-000
With metal bowl	G3/8	CL-3/8-D	PB 56249-003
With metal bowl	G1/2	CL-1/2-D	PB 56349-003
With metal bowl (sight glass)	G3/8	CL-3/8-E	PB 56249-004
With metal bowl (sight glass)	G1/2	CL-1/2-E	PB 56349-004

Accessories

Description	Bestell-Nr.
Bowl guard kit	PL17680
Mounting kit	PL 17518
Coupling kit	PL 17608
Porting block kit G1/2/G1/4	PL 17607
Porting block kit G1/2 with holes for mounting pressure switch (6.00.003E)	PL 17609
Solvent resistant sight glass	PL 07233
3/2-way shut-off valve CDV-3/8-XS / CDV-1/2-XS, spool type	PB 56849-000, PB 56949-000
Adaptersatz G3/4	PL 17682

Characteristics		Pressures quoted as gauge pressure	
System			Piston-type pressure regulating valve (pilot operated) with secondary pressure relief and flow compensation
Type			XR-15
Port size			G1/2
Installation			In any position
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	0 +60 (further temperatures on request)
Weight (mass)		kg	0.75
Pneumatic Characteristic			
Operating pressure range - inlet pressure	$p_{1\min}$ $p_{1\max}$	bar bar	0 16
Operating pressure range - outlet pressure	$p_{2\min}$ $p_{2\max}$	bar bar	0.5 10 (16)
Min. pressure difference	$p_1 - p_2$	bar	0.5
Hysteresis $p_1=10/p_2=0$		bar	0.6
Hysteresis $p_1=10/p_2=10$		bar	0.3
Recommended flow ¹⁾	Q_n	l/min m ³ /h	1900 114

¹⁾ at $p_2 = 6$ bar and 25 m/s

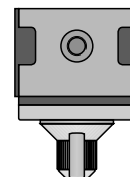
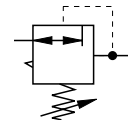


Pressure Regulating Valve

G1/2

airfit

XR



Piston-type pressure regulating valve (pilot operated) with secondary pressure relief and flow compensation

For single units see 5.20.008E-5.20.015E
 For accessories see 5.21.001E-5.21.003E
 For air preparation units see 5.20.002E-5.20.005E
 For product group list and product range see 5.20.001E

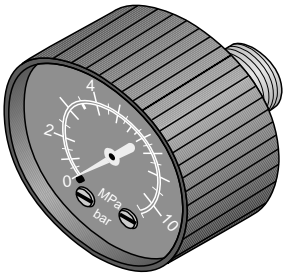
Data Sheet No. 5.20.012E-1

HOERBIGER
ORIGA

Accessories

Gauge

Ø50, 0-10 bar, G1/8

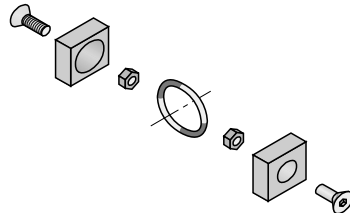


Order No.: KZ 8815

Accessories

Coupling kit

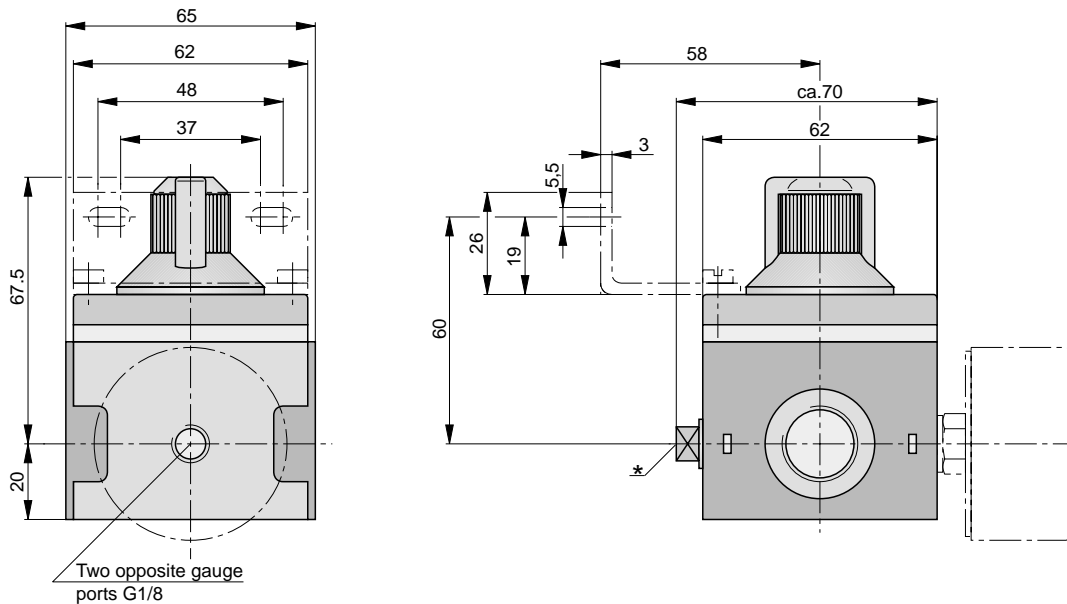
for connecting 2 single units



Order No.: PL 08267

Dimensions (mm)

Type: XR-15



*) On delivery the plug screw is not assembled.

Order Instructions

Description	Portsize	Type	Order No.
Basic model	G1/2	XR-15	PB 10549-000

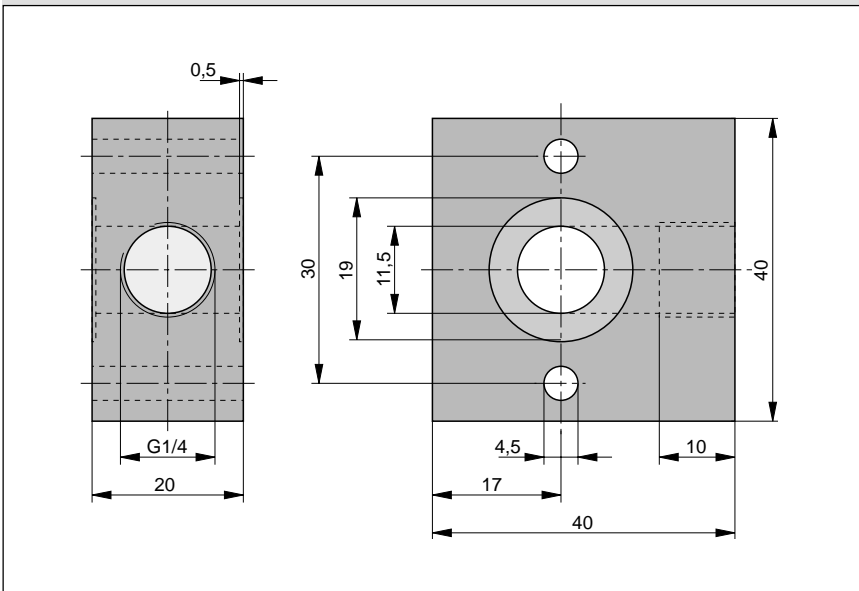
Accessories

Description	Order No.
Gauge, Ø50, 0-10 bar, G1/8	KZ 8815
Mounting kit	PL 15169
Coupling kit	PL 08267
Porting block kit G1/2/G1/4	PL 15003
Porting block kit G1/2 with holes for mounting pressure switch (6.00.003E)	PL 16781
3/2 way shut-off valve XDV-15	PB 12349-000
Regulator spring for operating pressure 16 bar	PL 15758

Characteristics

Installation	Between 2 units of the aifit light Series
Mounting	With coupling kit supplied
Material	Aluminium, enamelled black

Dimensions (mm)



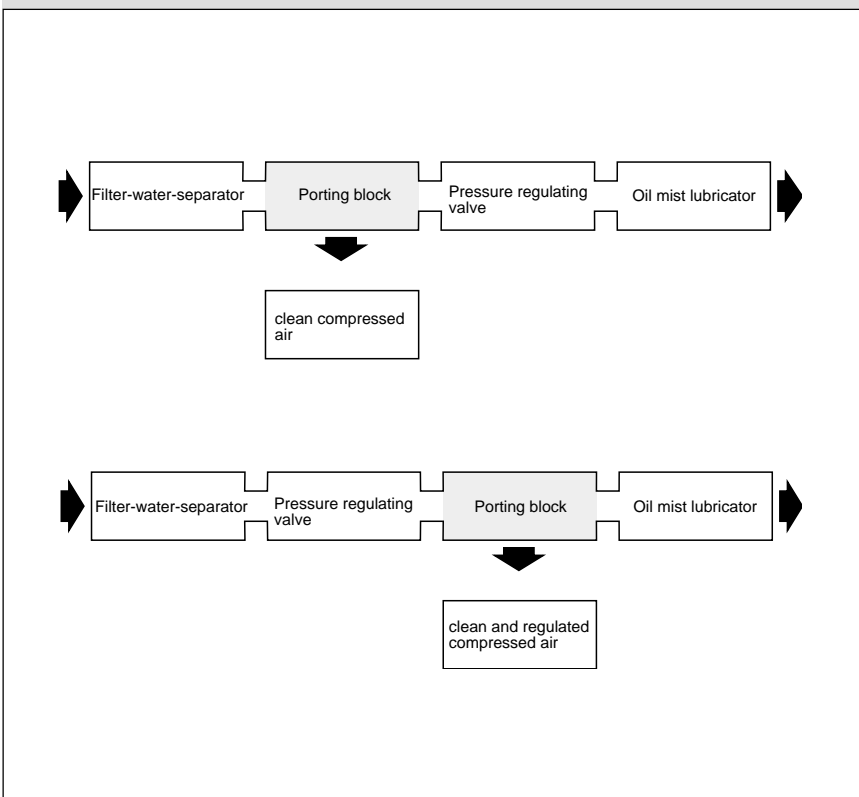
Porting Block Kit

G1/4

To provide unlubricated air
e.g. for air gun

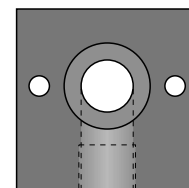
aifit light
Accessories

Installation Instructions



Porting block kit comprising:

- Porting block
- 2 Sealing rings
- 2 Mounting screws



Order No.: PL 16031

For single units see 5.09.004E-5.09.008E
For air preparation units see 5.09.002E, 5.09.003E
For product group list see 5.09.001E

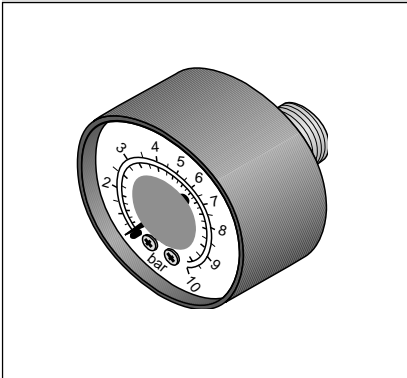
Data Sheet No. 5.21.002E

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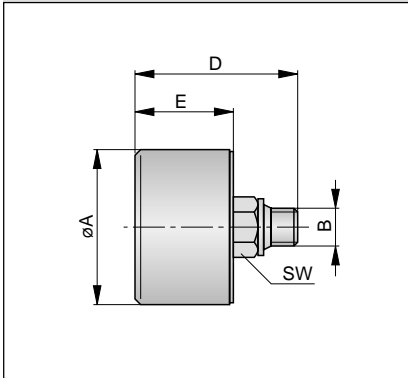
A1P288E00KY00X

The right to introduce technical modifications is reserved

**Gauge
centre rear connection**



Dimensions



Gauge

∅ 40, 50, 63 mm

- centre rear connection (standard)
- bottom connection
- for panel mounting

Order Instructions, Dimension Table (mm)

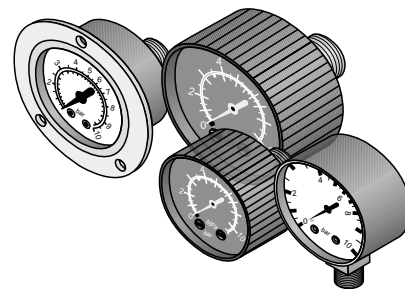
Order Instructions Type	Order No.	Dial range	∅A	B	D	E	SW
111.40.1,6	KZ 8894	0-1.6 bar	41	G1/8	44	26	14
111.40.2,5	KZ 8810	0-2.5 bar	41	G1/8	44	26	14
111.40.04	KZ 8811	0- 4 bar	41	G1/8	44	26	14
111.40.06	KZ 8812	0- 6 bar	41	G1/8	44	26	14
111.40.10	KZ 8813	0-10 bar	41	G1/8	44	26	14
111.40.10	KZ 8891*	0-10 bar	41	G1/8	44	26	14
111.40.16	KZ 8814	0-16 bar	41	G1/8	44	26	14
111.50.10	KZ 8815	0-10 bar	49	G1/8	48	27	14
111.50.16	KZ 8816	0-16 bar	49	G1/8	48	27	14
111.50.10	KG 8011*	0-10 bar	49	G1/4	48	27	14
111.50.10	KG 8012-00	0-10 bar	49	G1/4	48	27	14
111.50.16	KG 8013-00	0-16 bar	49	G1/4	48	27	14
111.63.10	KG 8002*	0-10 bar	62	G1/4	49	28	14
111.63.10	KZ 8817	0-10 bar	62	G1/4	49	28	14
111.63.16	KZ 8818	0-16 bar	62	G1/4	49	28	14

* HOERBIGER design

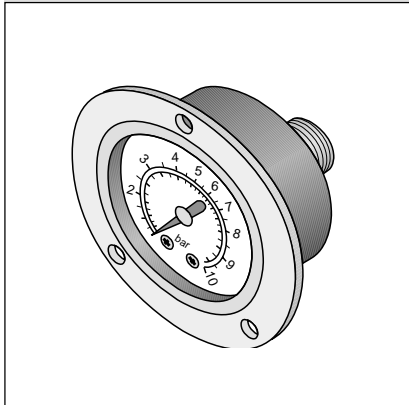
Technical data: Class 1.6 (DIN 16005), double scale in bar/psi, black polymer housing, acrylic glass face

A1P284E00KY00X

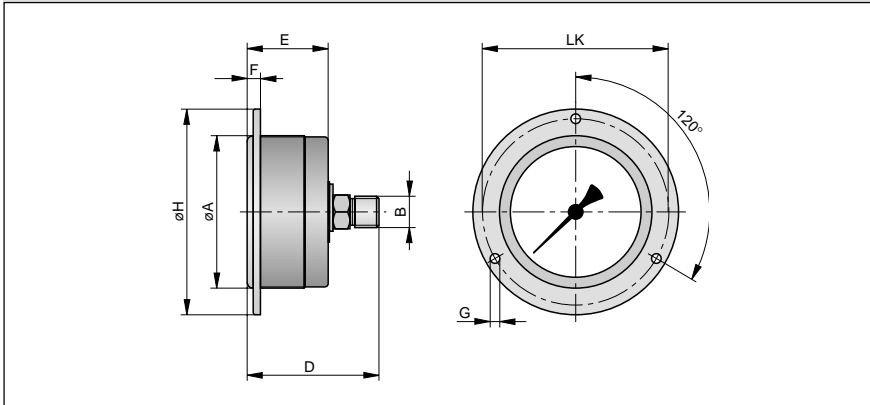
The right to introduce technical modifications is reserved



Gauge with front ring for panel mounting



Dimensions



Order Instructions, Dimension Table (mm)

Order Instructions Type	Order No.	Dial range	ØA	B	D	E	F max.	ØG	ØH	ØLK	SW
111.40.10	KZ 8822	0-10 bar	40	G1/8	45	27	7	3.6	61	51	14
111.50.10	KZ 8823	0-10 bar	50	G1/8	48	27	7	3.6	71	60	14
111.50.16	KZ 8824	0-16 bar	50	G1/8	48	27	7	3.6	71	60	14
111.63.04	KZ 8825	0- 4 bar	63	G1/4	48	30	7	3.6	85	75	14
111.63.10	KZ 8826	0-10 bar	63	G1/4	48	30	7	3.6	85	75	14
111.63.16	KZ 8827	0-16 bar	63	G1/4	48	30	7	3.6	85	75	14

Technical data: Class 2.5 (DIN 16005), scale in bar,
black polymer housing, acrylic glass face

Characteristics		Pressures quoted as gauge pressure	
System			3/2 way shut-off valve
Mounting			Direct assembly with any unit of series AIRFIT prestige – with coupling kit
Type		XDV-3/4	XDV-1
Port size		G3/4	G1
Installation		In any position	
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	0 +60 at 10 bar (further temperatures on request)
Weight (mass)		kg	1.8
Pneumatic Characteristic			
Operating pressure range	$p_{1\min}$ $p_{1\max}$	bar bar	0 16
Recommended flow ¹⁾	Q_n	l/min m ³ /h	3500 210
			5000 300
Maximum flow	Q_{\max}	l/min m ³ /h	> 20000 > 1200
			> 20000 > 1200

¹⁾ at $p_2 = 6.3$ bar and 25 m/s

3/2 Way Shut-off Valve

G3/4, G1

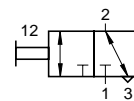
(Ball valve)

Actuation: Rotary switch



Accessories

XDV-3/4
XDV-1



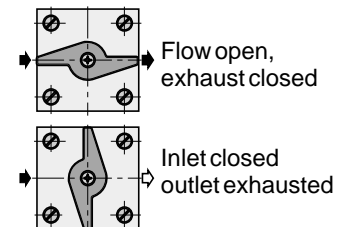
Dimensions (mm)

Standard version
Type: XDV

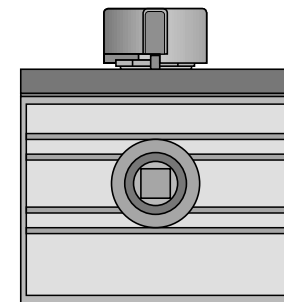
Version X (can be shut off)
Type: XDV-...-X

* On delivery the plug screw and silencer are not assembled.

- Rotary switch can be turned 90°
- Indication of positions



- Variante X: can be shut off in 4 different modes
- Flow direction shown by arrow



Order Instructions

Description	Port size	Type	Order No.
Standardversion	G3/4	XDV-3/4	PB 33849-100
	G1	XDV-1	PB 33949-100
Version X (can be shut off by lock)	G3/4	XDV-3/4-X	PB 33849-101
	G1	XDV-1-X	PB 33949-101

Accessories

Description	Bestell-Nr.
Coupling kit	PL 15670
Mounting kit	PL 15669
Lock, codable by customer	KG 9017

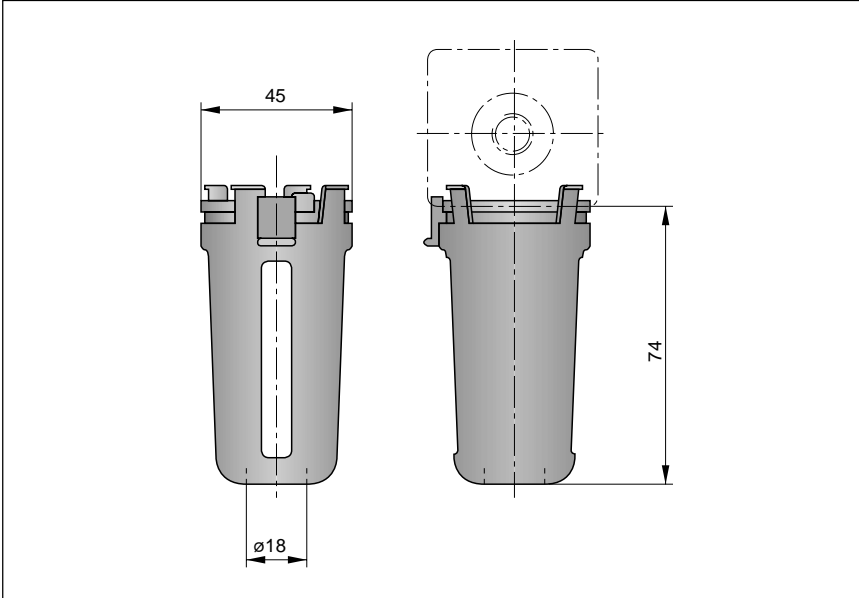
Single units and air preparation units see 5.22.001 - 5.22.007



Characteristics

Mounting	With snap mounting
Material	Zinc diecasting, polymer (POM)

Dimensions (mm)



Dimension Table and Order Instructions

Port size	Order No.
G1/8, G1/4, G3/8	PL 16970

A1P487E00KY00X

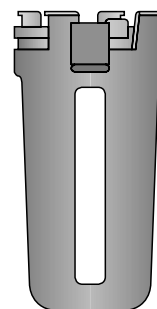
The right to introduce technical modifications is reserved

For single units see 5.12.004E-5.12.007E
For air preparation units see 5.12.002E-5.12.003E
For product group list see 5.12.001E

Data Sheet No. 5.21.009E

Bowl Guard Kit

for filter-water-separator
oil mist lubricator
combination units
of series AIRFIT SWING



The bowl guard protects the plastic bowl against external damage.

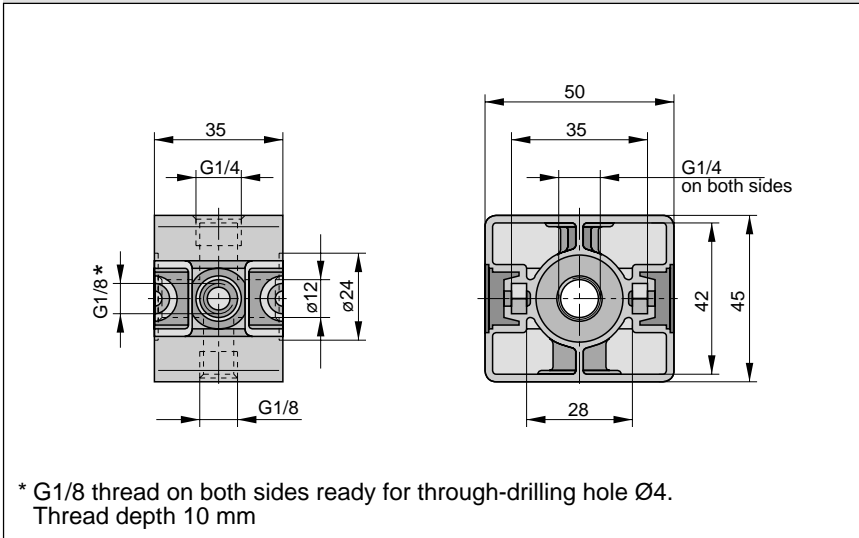
It comprises:
Bowl guard
(with snap mounting)



Characteristics

Installation	Between 2 units of the aifit swing Series
Mounting	Directly flangeable with coupling kit supplied
Material	Zinc diecasting, black finish

Dimensions (mm)



Porting Block Kit

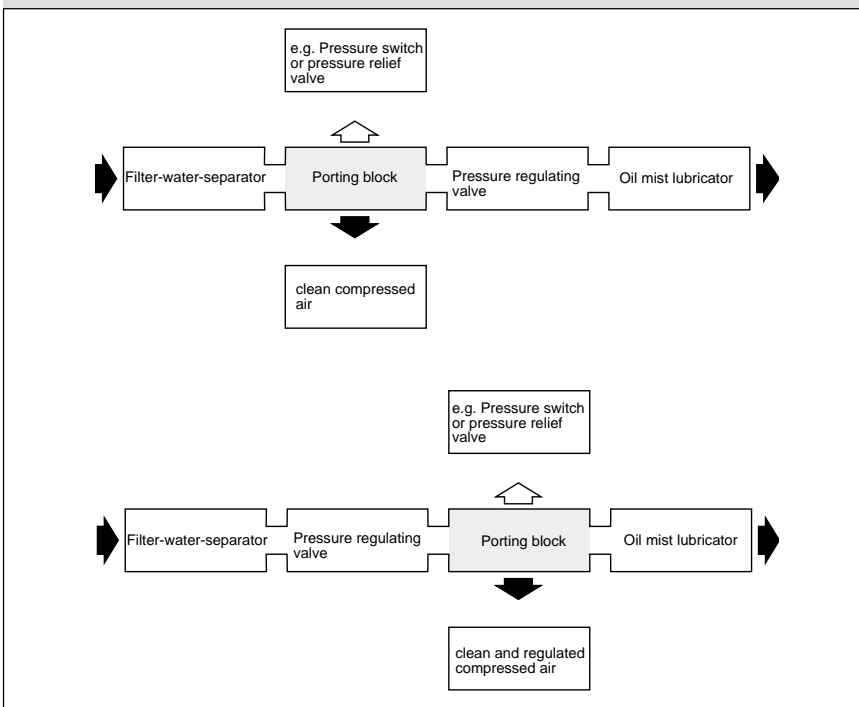
G1/4

To provide unlubricated air e.g. for air gun



SX

Installation Instructions

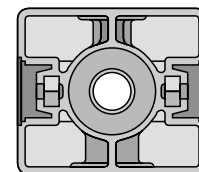


Porting block kit comprising:

- 1 Porting block
- 1 Coupling kit
- Plug screw

Special versions:

- Type SXV - Porting block kit with non-return function available on request
- Type SXH - Porting block kit with holes for mounting pressure switch to Data Sheet 6.00.003E



Order Instructions:

G1/4 – standard: SX

G3/8 – standard

G1/4 – with non-return function: SXV

G1/4 – with holes for mounting pressure switch: SXH

1/4" – NPTF-standard

3/8" – NPTF-standard

PL 16969

PL 18219

PL 17316

PL 16977

PL 17628

PL 17745

For single units see 5.12.004E-5.12.008E

For air preparation units see 5.12.002E, 5.12.003E

For product group list see 5.12.001E

Data Sheet No. 5.21.010E



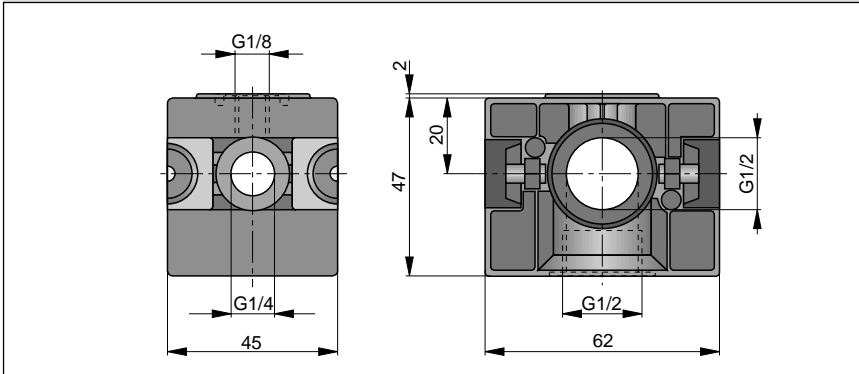
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The right to introduce technical modifications is reserved

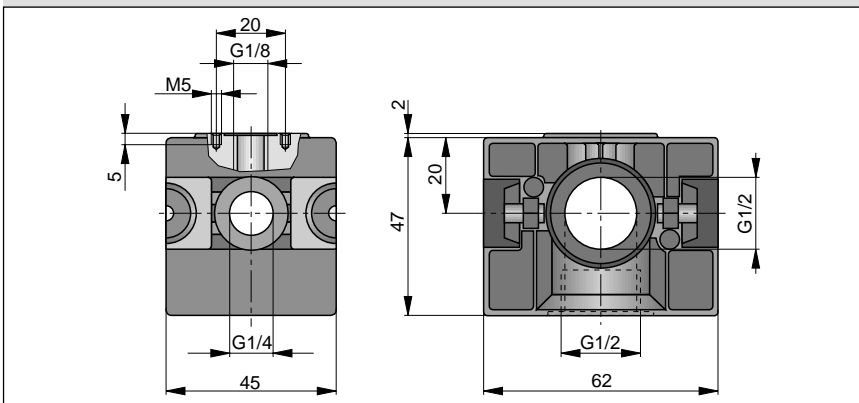
Characteristics

Installation	Between 2 units of the aifit comfort series
Mounting	Directly flangeable with coupling kit supplied
Material	Zinc - black lackiert

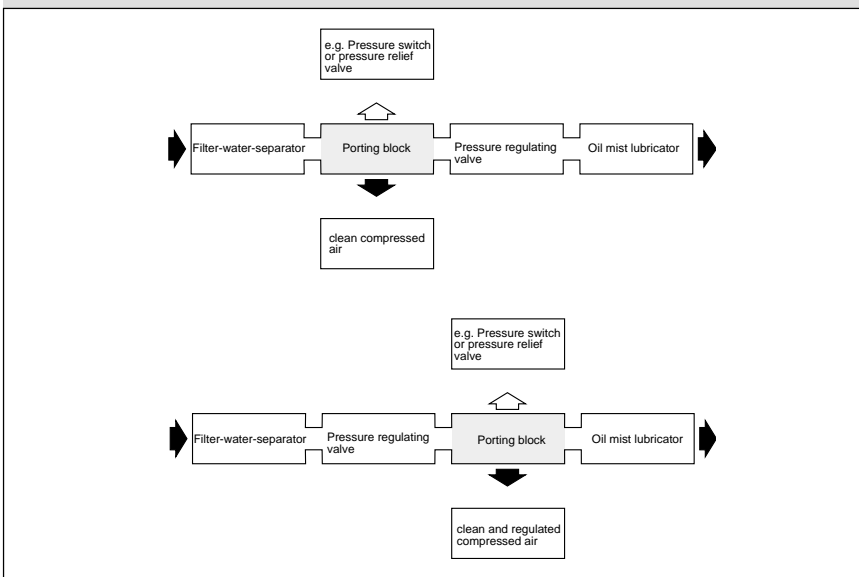
Dimensions (mm) Type PL 17607



Dimensions (mm) Type PL 17609



Installation Instructions



Order Instructions: PL 17607 G1/2 – standard
 PL 18370 G3/8 – standard
 PL 17609 G1/2 – for mounting pressure switch
 PL 17731 1/2" – NPTF-standard
 PL 17746 3/8" – NPTF-standard

For single units see 5.19.008E-5.19.016E
 For air preparation units see 5.19.004E, 5.19.005E
 For product group list see 5.19.001E

Porting Block Kit G1/2

To provide unlubricated air e.g. for air gun

aifit comfort

A1P550E00EAA00X

The right to introduce technical modifications is reserved

Porting block kit comprising:

- 1 Porting block
- 2 Cones
- 1 O-Ring
- 2 Nuts
- 2 Screws
- 1 Plug screw G1/8

• Version see order instructions

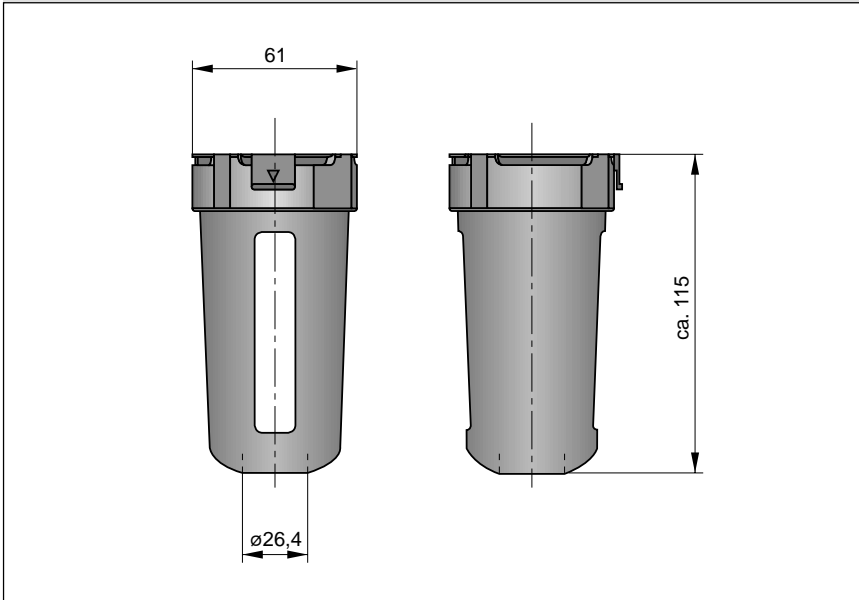


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Characteristics

Mounting	With snap mounting
Material	Zinc diecasting, polymer (POM)

Dimensions (mm)



Dimension Table and Order Instructions

Port size	Order No.
G3/8, G1/2	PL 17680

Bowl Guard Kit

airfit comfort

A1P551E00KY00X

The right to introduce technical modifications is reserved

Just click, easy assembly with bayonet fitting

The bowl guard protects the plastic bowl against external damage.

Assembly instructions:
The bowl guard kit consists of 3 parts.
Please read the assembly instructions included with delivery.



For single units see 5.19.008E-5.19.016E
For air preparation units see 5.19.004E-5.19.005E
For product group list see 5.19.001E

Data Sheet No. 5.21.013E

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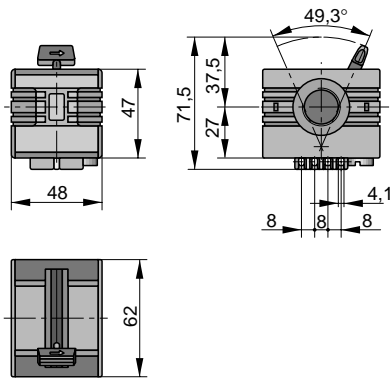
Characteristics		Pressures quoted as gauge pressure	
System		3/2 way valve (spool type)	
Mounting		direct assembly to any unit from the airfit comfort series, with coupling kit PL 17608	
Type		CDV-3/8-XS	CDV-1/2-XS
Port size		G3/8	G1/2
Installation		In any position	
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	0 +60 at 10 bar (further temperatures on request)
Weight (mass)		kg	0.4
Pneumatic Characteristic			
Operating pressure range	$p_{1\min}$ $p_{1\max}$	bar bar	0 16
Recommended flow ¹⁾	Q_n	l/min m ³ /h	850 51
Maximum flow ³⁾	Q_{\max}	l/min m ³ /h	7500 450

¹⁾ at $p_2 = 6.3$ bar and 25 m/s

²⁾ at $p_2 = 6.3$ bar and $\Delta p = 1$ bar

Dimensions (mm)

Type: CDV-3/8, 1/2



Bestellangaben

Description	Port size	Type	Order No.
3/2 way shut-off valve	G3/8	CDV-3/8-XS	PB 56849-000
3/2 way shut-off valve	G1/2	CDV-1/2-XS	PB 56949-000

Accessories

Description	Order No.
Coupling kit	PL 17608
Adaptor set G3/4	PL 17681

Accessories

Key, codeable by customer



Order No.: **KG 9017**

For single units see 5.19.008E-5.19.016E
 For air preparation units see 5.19.004-5.19.005E
 For product group list see 5.19.001E

Data Sheet No. 5.21.014E

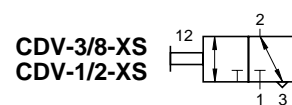
3/2 Way Shut-off Valve

G3/8-G1/2

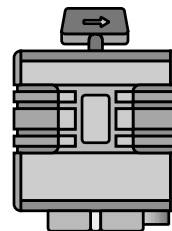
Spool type

Actuation: slide

airfit comfort



- Spool type valve
- 4-fold lockable
- Colour coded optical position indicator
- Controlled exhaust
- Arrow symbol indicates flow direction
- Version NPTF thread



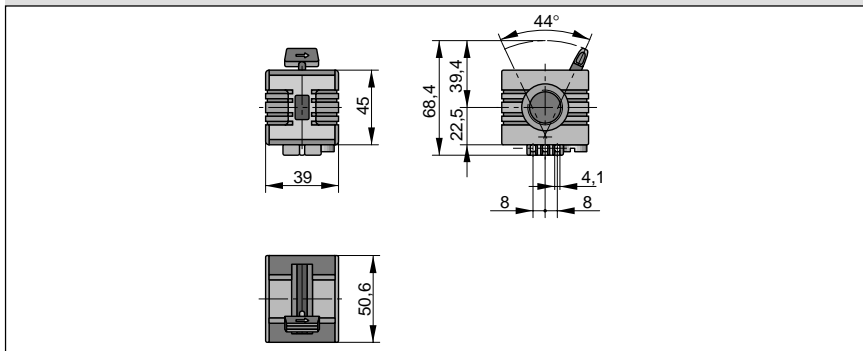
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Characteristics		Pressures quoted as gauge pressure	
System		3/2 way valve (spool type)	
Mounting		direct assembly to any unit from the airfit swing series, with coupling kit PL 16959	
Type		SDV-1/4-XS	SDV-3/8-XS
Port size		G1/4	G3/8
Installation		In any position	
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	0 +60 at 10 bar (further temperatures on request)
Weight (mass)		kg	0.25
Pneumatic Characteristic			
Operating pressure range	$p_{1\min}$ $p_{1\max}$	bar bar	0 16
Recommended flow ¹⁾	Q_n	l/min m ³ /h	550 33 850 51
Maximum flow ³⁾	Q_{\max}	l/min m ³ /h	4100 246 5300 318

¹⁾ at $p_2 = 6.3$ bar and 25 m/s

²⁾ at $p_2 = 6.3$ bar and $\Delta p = 1$ bar

Dimensions (mm)



Bestellangaben

Description	Port size	Type	Order No.
3/2 way shut-off valve lockable	G1/4	SDV-1/4XS	PB 46749-101
3/2 way shut-off valve lockable	G3/8	SDV-3/8XS	PB 46849-101

Accessories

Description	Order No.
Coupling kit	PL 16959

Accessories

Key, codeable by customer



Order No.: **KG 9017**

For single units see 5.12.004E-5.12.007E

For air preparation units see 5.12.003E

For product group list see 5.12.001E

Data Sheet No. **5.21.015E**

3/2 Way Shut-off Valve

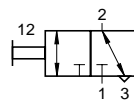
G1/4, G3/8

Spool type

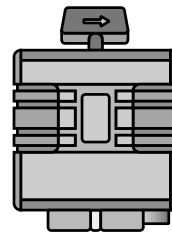
Actuation: slide



SDV-1/4-XS
SDV-3/8-XS



- Spool type valve
- 3-fold lockable
- Colour coded optical position indicator
- Controlled exhaust
- Arrow symbol indicates flow direction
- version with NPTF thread

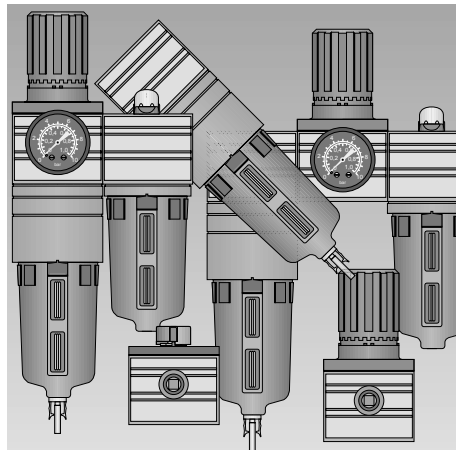


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ORIGA

**PNEUMATIC
GROUP**

**AIR PREPARATION UNITS
G3/4-G1
SERIES**



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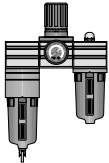







		Port size	Recommended flow (l/min)*	Maximum flow (l/min)	Type	Data Sheet No.
Air preparation units		G3/4	3500	7000	XFRL-3/4	5.22.002E
		G1	5000	9000	XFRL-1	
		G3/4	3500	9000	XKL-3/4	5.22.003E
		G1	5000	10000	XKL-1	
Filter-regulator		G3/4	3500	12500	XK-3/4	5.22.004E
		G1	5000	14000	XK-1	
Filter-water-separator		G3/4	3500	12500	XF-3/4	5.22.005E
		G1	5000	14500	XF-1	
Pressure regulating valve		G3/4	3500	12500	XR-3/4	5.22.006E
		G1	5000	13500	XR-1	
Oil mist lubricator		G3/4	3500	17000	XL-3/4	5.22.007E
		G1	5000	18000	XL-1	
3/2 way shut-off valve		G3/4	3500	>20000	XDV-3/4	5.21.008E
		G1	5000	>20000	XDV-1	
Start-stop valve		G3/4	3500	14000	XDS-3/4	5.95.017E
		G1	5000	16000	XDS-1	

Table of Contents see 5.00.001E

* at 6.3bar and 25 m/s

A3P033E71EAA00X

The right to introduce technical modifications is reserved

A1P188E00KY00X

The right to introduce technical modifications is reserved

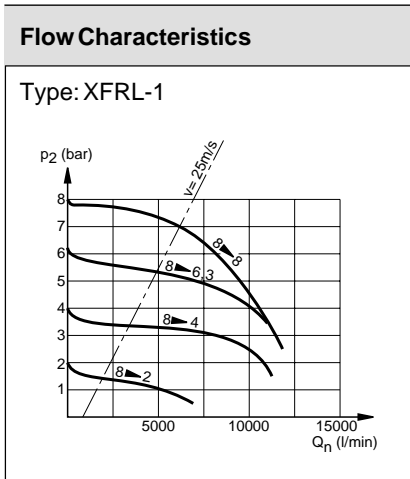
Characteristics		Pressures quoted as gauge pressure	
System		Air preparation unit comprising filter-water-separator, diaphragm-type pressure regulating valve and oil mist lubricator *)	
Type		XFRL-3/4	XFRL-1
Port size		G3/4	G1
Max. condensate capacity	cm ³	500	
Condensate drainage		Standard: manual On request: semiautomatic with pressure relief or fully automatic	
Max. oil capacity	cm ³	500	
Oil refilling		Standard: manual - also during operation On request: bowl with automatic refilling	
Installation		Vertical	
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	0 +50 at 10 bar (further temperatures on request)
Weight (mass)	kg	5.70	
Pneumatic Characteristic¹⁾			
Operating pressure range - inlet pressure	$p_{1\min}$ $p_{1\max}$	bar bar	0 10
Operating pressure range - outlet pressure	$p_{2\min}$ $p_{2\max}$	bar bar	0.5 10
Recommended flow ²⁾	Q_n	l/min m ³ /h	3500 210 5000 300
Maximum flow ³⁾	Q_n	l/min m ³ /h	7000 420 9000 540

1) For further characteristics see 5.22.003E-5.22.007E

2) at 6 bar and 25 m/s

3) at $p_1=10$ bar on $p_2=6.3$ $p\Delta=1$ bar

*) Use only recommended oils with viscosity VG32 to ISO 3448 (32 mm²/s at 40°C) or HOERBIGER special oil, Order No.: KY 8766 (Cat.-No. 5.61.050E)



For single units see 5.22.004E-5.22.007E
For product group list see 5.22.001E

Data Sheet No. 5.22.002E-1

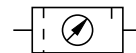
Air Preparation Unit

G3/4, G1

Standard with metal bowl



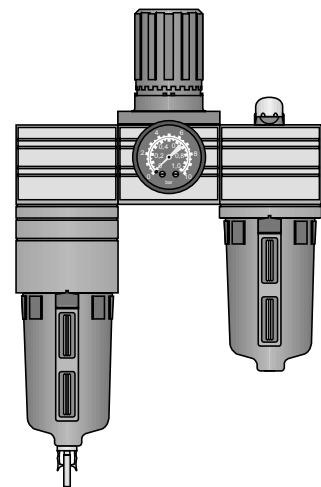
XFRL



Air preparation unit comprising:

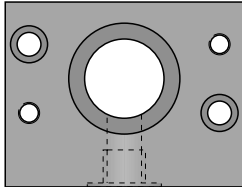
- Filter-water-separator
- Diaphragm-type pressure regulating valve
- Oil mist lubricator
- Gauge
- Mounting bracket

- Modular system
- Modern design
- Version with NPTF thread



Accessories

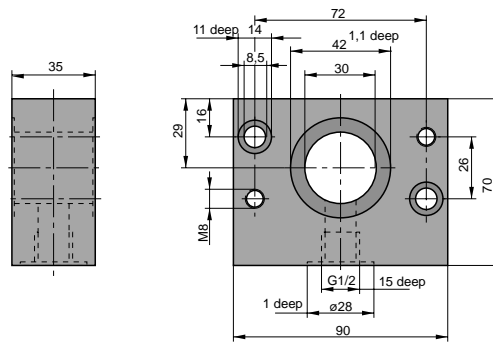
Porting block kit
to provide unlubricated air



Order No.: PL 15672

Dimensions (mm)

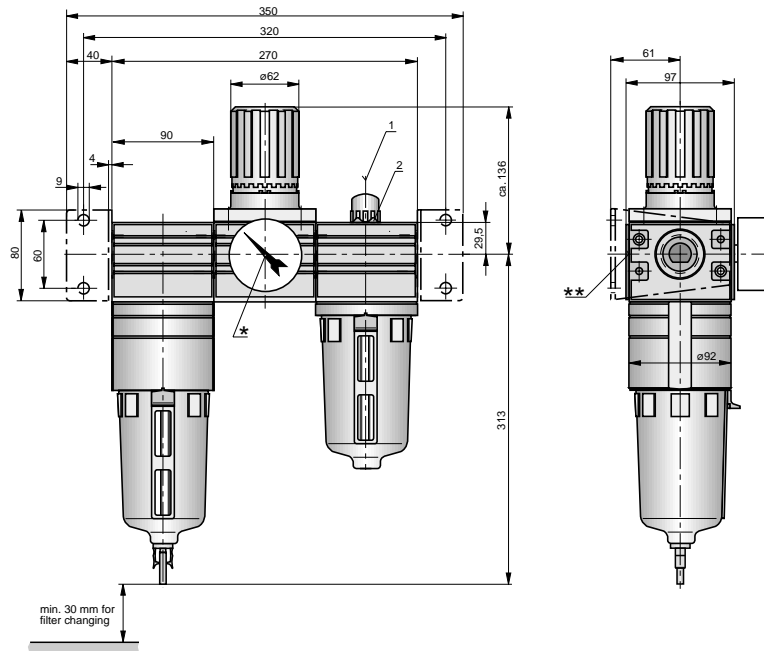
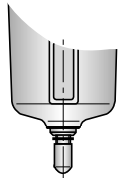
Porting block



Dimensions (mm)

Type: XFRL-3/4
XFRL-1

Version-A
(automatic drainage)



* Two opposite gauge ports G1/4
** On delivery the plug screw is not assembled.

1 = oil adjusting screw
2 = oil refilling plug

Order Instructions

Description	Port size	Type	Order No.
Basic model	G3/4	XFRL-3/4	PB 36049-100
Basic model	G1	XFRL-1	PB 36149-100
With semiautomatic drainage	G3/4	XFRL-3/4-H	PB 36049-104
With semiautomatic drainage	G1	XFRL-1-H	PB 36149-104
With automatic drainage	G3/4	XFRL-3/4-A	PB 36049-105
With automatic drainage	G1	XFRL-1-A	PB 36149-105

Accessories

Description	Order No.
Porting block kit	PL 15672
3/2 way shut-off valve G3/4, G1	PB 33849-100, PB 33949-100
Solvent resistant sight glass	PL 15717

Characteristics		Pressures quoted as gauge pressure		
System			Air preparation unit comprising filter-regulator and oil mist lubricator *)	
Type			XKL-3/4	XKL-1
Port size			G3/4	G1
Max. condensate capacity		cm ³	500	
Condensate drainage			Standard: manual On request: semiautomatic with pressure relief fully automatic	
Max. oil capacity		cm ³	500	
Oil refilling			Standard: manual - also during operation On request: bowl with automatic refilling	
Installation			Vertical	
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	0 +50 at 10 bar	(further temperatures on request)
Weight (mass)		kg	4.4	
Pneumatic Characteristic¹⁾				
Operating pressure range - inlet pressure	$p_{1\min}$ $p_{1\max}$	bar bar	0 10	
Operating pressure range - outlet pressure	$p_{2\min}$ $p_{2\max}$	bar bar	0.5 10	
Recommended flow ²⁾	Q_n	l/min m ³ /hh	3500 210	5000 300
Maximum flow ³⁾	Q_n	l/min m ³ /h	9000 540	10000 600

¹⁾ For further characteristics see 5.22.003E-5.22.007E

²⁾ at 6 bar and 25 m/s

³⁾ at $p_1=10$ bar on $p_2=6.3$ $p\Delta=1$ bar

*) Use only recommended oils with viscosity VG32 to ISO 3448 (32 mm²/s at 40°C) or HOERBIGER special oil, Order No.: KY 8766 (Cat.-No. 5.61.050E)

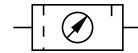
Air Preparation Unit

G3/4, G1

Standard with metal bowl
Degree of moisture separation 96%



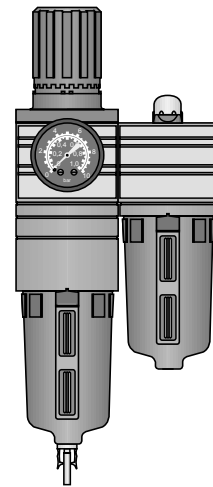
XKL



Air preparation unit comprising:

Filter-regulator
Oil mist lubricator
Gauge
Mounting bracket

- Modular system
- Modern design
- Version with NPTF thread



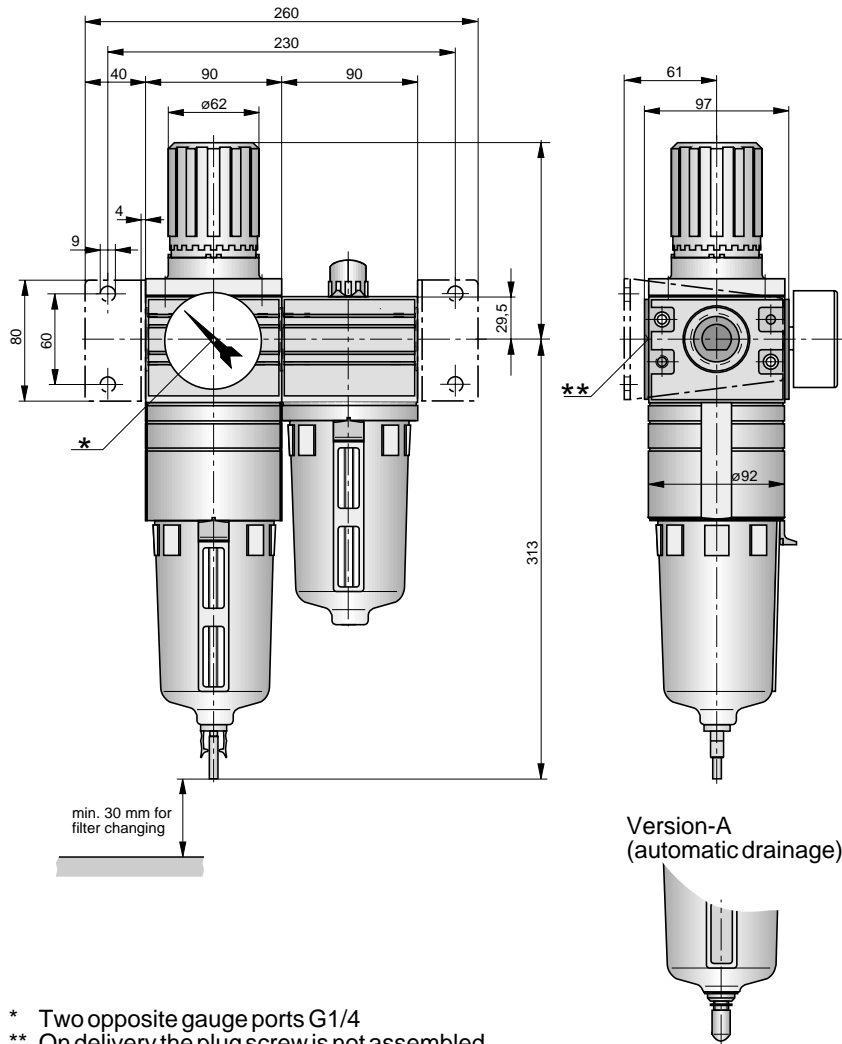
HOERBIGER
ORIGA

For single units see 5.22.004E-5.22.007E
For product group list see 5.22.001E

Data Sheet No. 5.22.003E-1

Dimensions (mm)

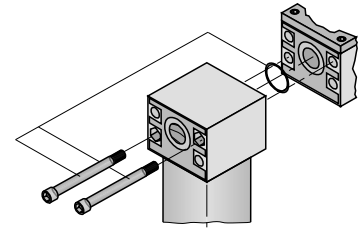
Type: XKL-3/4
XKL-1



- * Two opposite gauge ports G1/4
- ** On delivery the plug screw is not assembled.

Accessories

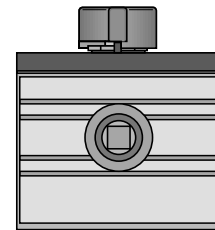
Coupling kit
for connecting 2 single units



Order No.: PL 15670

Accessories

3/2 way shut-off valve



Order No.: XDV-3/4: PB 33849-100
XDV-1: PB 33949-100

Order Instructions

Description	Port size	Type	Order No.
Basic model	G3/4	XKL-3/4	PB 32449-100
Basic model	G1	XKL-1	PB 32549-100
With semiautomatic drainage	G3/4	XKL-3/4-H	PB 32449-104
With semiautomatic drainage	G1	XKL-1-H	PB 32549-104
With automatic drainage	G3/4	XKL-3/4-A	PB 32449-105
With automatic drainage	G1	XKL-1-A	PB 32549-105

Accessories

Description	Order No.
Porting block kit G1/2	PL 15672
3/2 way shut-off valve G3/4, G1	PB 33849-100, PB 33949-100
Solvent resistant sight glass	PL 15717
Coupling kit	PL 15670
Regulator spring for operating pressure 16 bar	PL 16570
Gauge, Ø63 mm, 0-10 bar, G1/4	KZ 8817
Mounting kit	PL 15669

A1P403E00KY00X

The right to introduce technical modifications is reserved

Characteristics		Pressures quoted as gauge pressure		
System			Cyclone system with filter element, combined with a diaphragm-type pressure regulating valve (spring loaded) with flow compensation and secondary pressure relief	
Type			XK-20	XK-25
Port size			G3/4	G1
Pore size of filter element		µm	Standard: 30 5	
Max. condensate capacity		cm ³	500	
Condensate drainage			Standard: manual semiautomatic with pressure relief or fully automatic	
Installation			Vertical	
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	0 +50 at 10 bar (further temperatures on request)	
Weight (mass)		kg	2.8	
Pneumatic Characteristic				
Operating pressure range - inlet pressure	$p_{1\min}$ $p_{1\max}$	bar bar	0 10	
Operating pressure range - outlet pressure	$p_{2\min}$ $p_{2\max}$	bar bar	0.5 10	
Min. pressure difference	$p_1 - p_2$	bar	0.2	
Hysteresis $p_1=10/p_2=0$ Hysteresis $p_1=10/p_2=10$		bar bar	0.6 0.3	
Recommended flow ¹⁾	Q_n	l/min m ³ /hh	3500 210	5000 300
Maximum flow ²⁾	Q_n	l/min m ³ /h	12500 750	14000 840
Degree of moisture separation at recommended flow	η	%	96 96	

¹⁾ at 6 bar and 25 m/s

²⁾ at $p_1=10$ bar on $p_2=6.3$ $p\Delta=1$ bar

Filter-Regulator

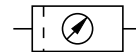
G3/4, G1

Pressure regulating valve with filter-water-separator

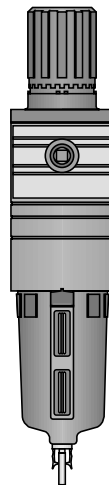
Standard with metal bowl
Degree of moisture separation 96%



XK



- Modular system
- Modern design
- Version with NPTF thread



Filter-regulator with flow compensation and secondary pressure relief, handwheel lockable

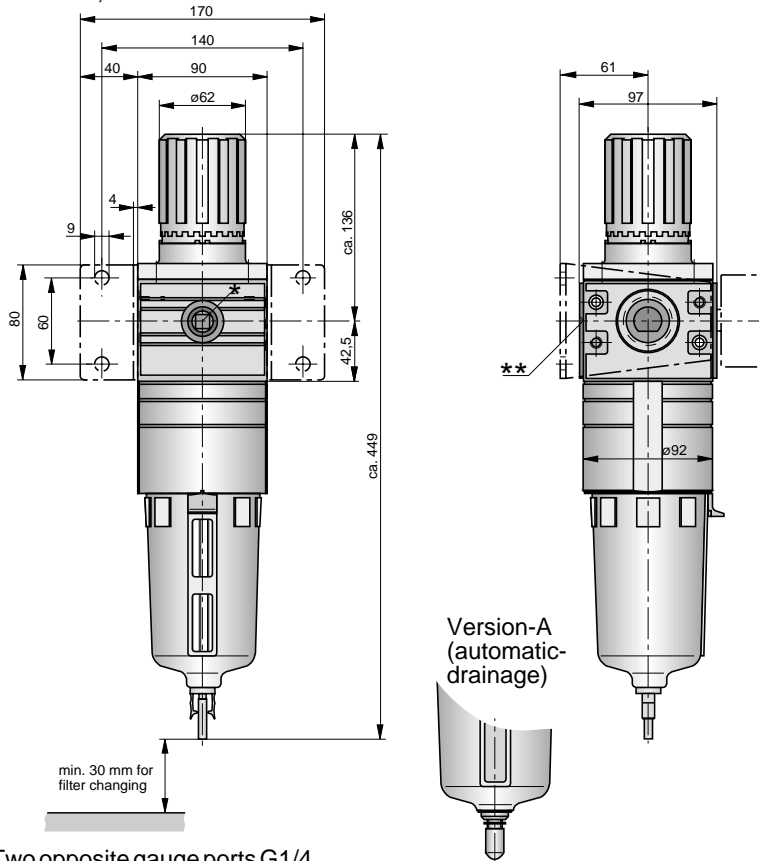
HOERBIGER
ORIGA

For single units see 5.22.004E -5.22.007E
For air preparation units see 5.22.002E, 5.22.003E
For product group list see 5.22.001E

Data Sheet No. 5.22.004E-1

Dimensions (mm)

Type: XK-3/4, XK-1

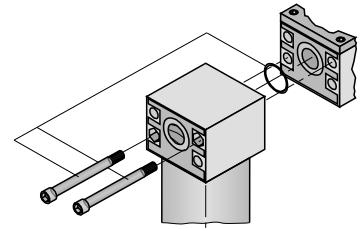


* Two opposite gauge ports G1/4

** On delivery the plug screw is not assembled.

Accessories

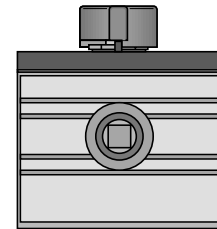
Coupling kit
for connecting 2 single units



Order No.: PL 15670

Accessories

3/2 way shut-off valve



Order No.: XDV-3/4: PB 33849-100
XDV-1: PB 33949-100

Order Instructions

Description	Port size	Type	Order No.
Basic model	G3/4	XK-3/4	PB 33649-100
Basic model	G1	XK-1	PB 33749-100
With filter element 5 µm	G3/4	XK-3/4-5	PB 33649-116
With filter element 5 µm	G1	XK-1-5	PB 33749-116
With semiautomatic drainage	G3/4	XK-3/4-H	PB 33649-101
With semiautomatic drainage	G1	XK-1-H	PB 33749-101
With automatic drainage	G3/4	XK-3/4-A	PB 33649-102
With automatic drainage	G1	XK-1-A	PB 33749-102
With adapter for keylock	G3/4	XK-3/4-X	on request
With adapter for keylock	G1	XK-1-X	on request

Accessories

Description	Order No.
Porting block kit G1/2	PL 15672
3/2 way shut-off valve G3/4, G1	PB 33849-100, PB 33949-100
Solvent resistant sight glass	PL 15717
Coupling kit	PL 15670
Manometer, Ø 63 mm, 0-10 bar, G1/4 (HOERBIGER-design)	KG 8002
Mounting kit	PL 15669

Characteristics		Pressures quoted as gauge pressure				
System			Cyclone system and downstream filter element (XF), Dust filter (XFD)			
Type			XF-3/4	XFD-3/4	XF-1	XFD-1
Port size			G3/4		G1	
Max. condensate capacity		cm ³	500			
Pore size of filter element		µm	Standard: 30 5 and 1 (XFD)			
Condensate drainage			Standard: manual semiautomatic (XF) (pressure relief) and fully automatic (XF)			
Installation			Vertical			
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	0 (further temperatures +50 at 10 bar on request)			
Weight (mass)		kg	2.20			
Pneumatic Characteristic						
Operating pressure range	p_{\min} p_{\max}	bar bar	0 10			
Recommended flow ¹⁾	Q_n	l/min m ³ /h	3500 210		5000 300	
Maximum flow ²⁾	Q_n	l/min m ³ /h	12500 750	11400 684	14500 840	13900 834
Degree of moisture separation at recommended flow	η	%	96	*	96	*

¹⁾ at 6 bar and 25 m/s

²⁾ at $p_1=6.3$ bar and $\Delta p=1$ bar

* only solid particles > 99 % related to 1 µm

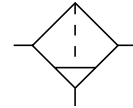
Filter-Water-Separator, Dust Filter

G3/4, G1

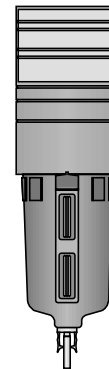
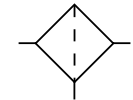
Standard with metal bowl
Degree of moisture separation 96%
>99% (XFD)



XF



XFD



XF:
Filter-water-separator with cyclone system and downstream filter element.

XFD:
Dust filter with large filter surface for long service life. For compressed air system with air dryers.

- Modular system
- Modern design
- Version with NPTF thread

HOERBIGER

ORIGA

For single units see 5.22.003E-5.22.007E
For air preparation units see 5.22.002E, 5.22.003E
For product group list see 5.22.001E

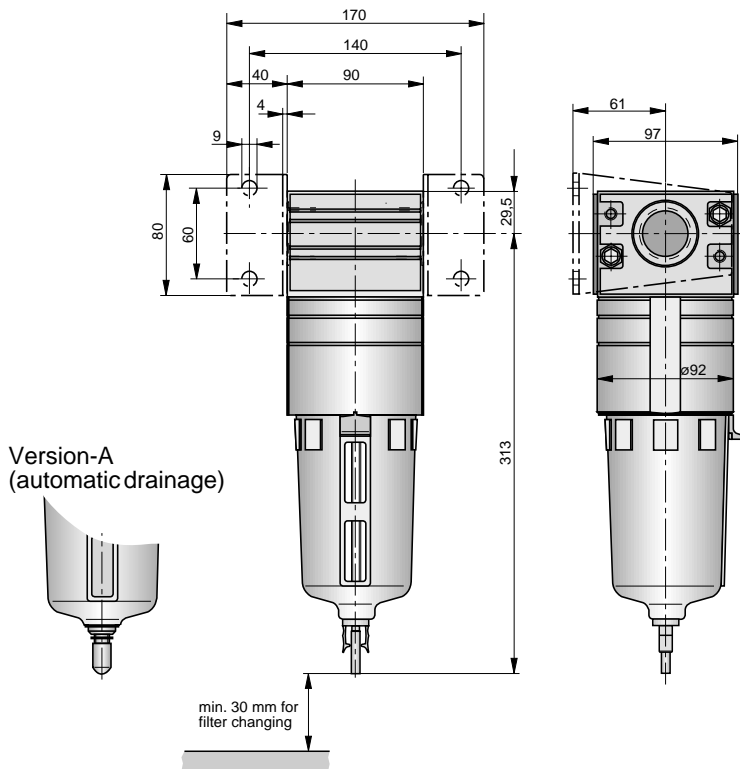
Data Sheet No. 5.22.005E-1

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The right to introduce technical modifications is reserved

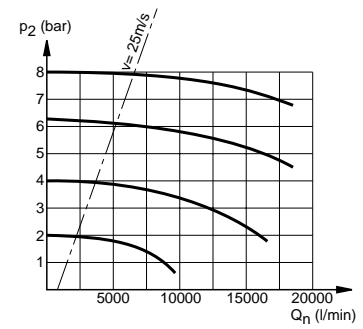
Dimensions (mm)

Type: XF-3/4
XF-1



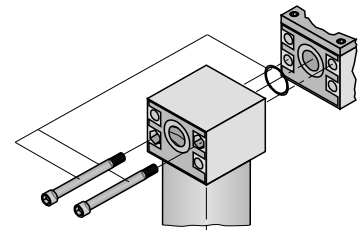
Flow Characteristics

Type: XF-1



Accessories

Coupling kit
for connecting 2 single units



Order No.: PL 15670

Order Instructions

Description	Port size	Type	Order No.
Basic model	G3/4	XF-3/4	PB 34049-100
Basic model	G1	XF-1	PB 34149-100
With filter element 5 μm	G3/4	XF-3/4-5	PB 34049-116
With filter element 5 μm	G1	XF-1-5	PB 34149-116
With filter element 1 μm	G3/4	XFD-3/4-1	PB 34049-170
With filter element 1 μm	G1	XFD-1-1	PB 34149-170
With semiautomatic drainage	G3/4	XF-3/4-H	PB 34049-101
With semiautomatic drainage	G1	XF-1-H	PB 34149-101
With automatic drainage	G3/4	XF-3/4-A	PB 34049-102
With automatic drainage	G1	XF-1-A	PB 34149-102

Accessories

Description	Order No.
Mounting kit	PL 15669
Coupling kit	PL 15670
Porting block kit G1/2	PL 15672
3/2 way shut-off valve G3/4, G1	PB 33849-100, PB 33949-100

Characteristics		Pressures quoted as gauge pressure	
System		Diaphragm-type pressure regulating valve (spring loaded) with flow compensation and secondary pressure relief	
Type		XR-3/4	XR-1
Port size		G3/4	G1
Installation		In any position	
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	0 +60 (further temperatures on request)
Weight (mass)		kg	1.80
Pneumatic Characteristic			
Operating pressure range - inlet pressure	$p_{1\min}$ $p_{1\max}$	bar bar	0 16
Operating pressure range - outlet pressure	$p_{2\min}$ $p_{2\max}$	bar bar	0.5 on request 10 0.5 ²⁾ 16
Min. pressure difference	$p_1 - p_2$	bar	0.2
Hysteresis $p_1=10/p_2=0$ Hysteresis $p_1=10/p_2=10$		bar	0.6 0.2
Recommended flow ¹⁾	Q_n	l/min m ³ /h	3500 210 5000 300
Maximum flow ³⁾	Q_n	l/min m ³ /h	12500 750 13500 840

¹⁾ at 6 bar and 25 m/s

²⁾ By the use of special springs, the outlet pressure can be precisely regulated in the specified p_2 range

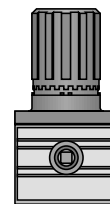
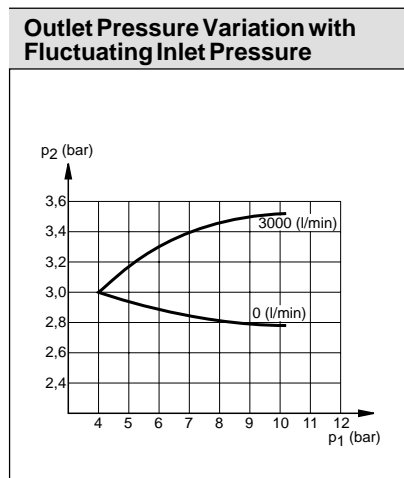
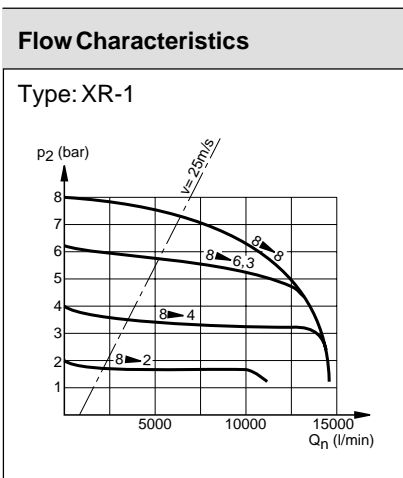
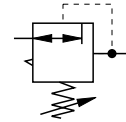
³⁾ at $p_1=10$ bar on $p_2=6.3$ $\rho\Delta=1$ bar

Pressure Regulating Valve

G3/4, G1



XR



Diaphragm-type pressure regulating valve (spring loaded) with secondary pressure relief and flow compensation, handwheel lockable

- Modular system
- Modern design
- Version with NPTF thread

For single units see 5.22.004E - 5.22.007E
 For air preparation units see 5.22.002E, 5.22.003E
 For product group list see 5.22.001E

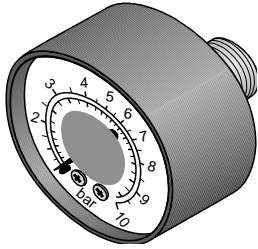
Data Sheet No. 5.22.006E-1



Accessories

Gauge

Ø63 mm, 0-10 bar, G1/4

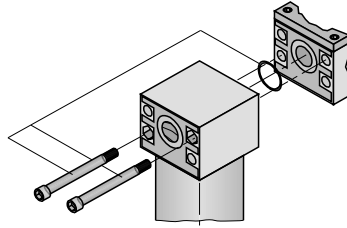


Order No.: KG 8002

Accessories

Coupling kit

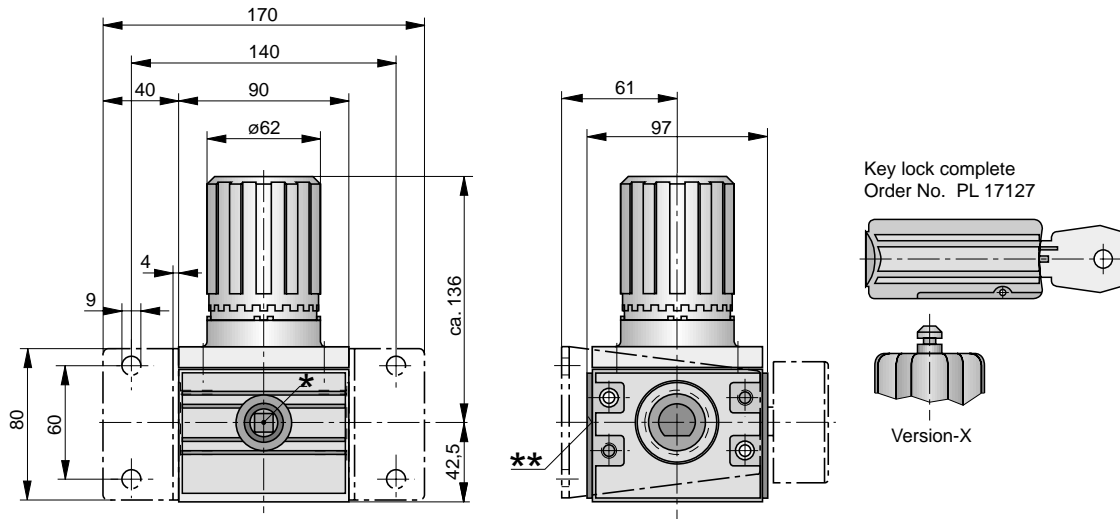
for connecting 2 single units



Order No.: PL 15670

Dimensions (mm)

Type: XR-3/4
XR-1



* Two opposite gauge ports G1/4

** On delivery the plug screw is not assembled.

Order Instructions

Description	Portsize	Type	Order No.
Basic model	G3/4	XR-3/4	PB 34249-100
Basic model	G1	XR-1	PB 34349-100
With adapter for keylock	G3/4	XR-3/4-X	PB 34249-106
With adapter for keylock	G1	XR-1-X	PB 34349-106

Accessories

Description	Order No.
Mounting kit	PL 15669
Coupling kit	PL 15670
Gauge, Ø63 mm, 0-10 bar, G1/4 (HOERBIGER-design)	KG 8002
Porting block kit G1/2	PL 15672
Keylock complete	PL 17127
3/2 way shut-off valve G3/4, G1	PB 33849-100, PB 33949-100
Regulator spring for operating pressure 16 bar Note: use only for special applications	PL 16570

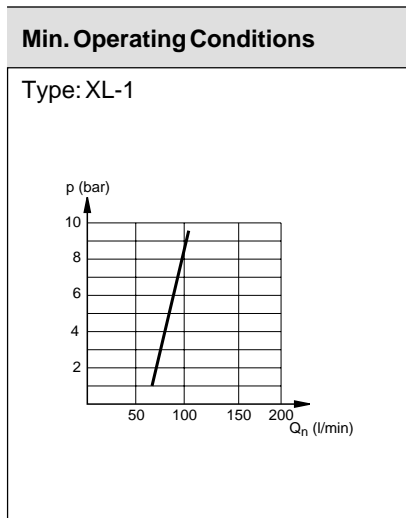
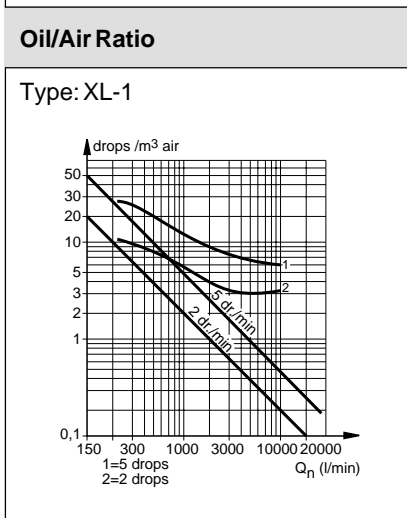
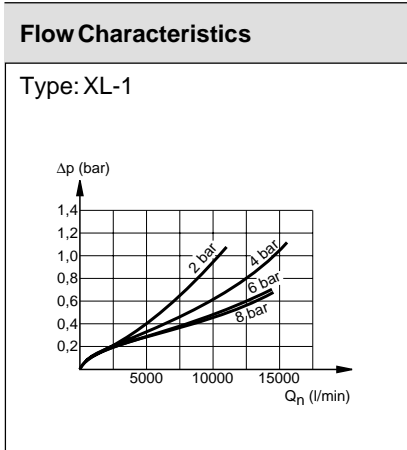
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The right to introduce technical modifications is reserved

Characteristics		Pressures quoted as gauge pressure	
System		Oil mist lubricator with flow compensation *)	
Type		XL-3/4	XL-1
Port size		G3/4	G1
Oil/air ratio		Degressive (number of drops per minute remains constant)	
Max. oil capacity		cm ³	500
Oil refilling		Standard: manual - also during operation On request: bowl with automatic refilling	
Installation		Vertical	
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	0 +50 at 10 bar (further temperatures on request)
Weight (mass)		kg	1.60
Pneumatic Characteristic			
Operating pressure range	p_{\min} p_{\max}	bar bar	0 10
Recommended flow ¹⁾	Q_n	l/min m ³ /h	3500 210 5000 300
Maximum flow ²⁾	Q_n	l/min m ³ /h	17000 1020 18000 1080

¹⁾ at 6 bar and 25 m/s
²⁾ at $p_1=6.3$ bar and $p\Delta=1$ bar

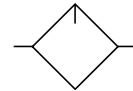
*) Use only recommended oils with viscosity VG32 to ISO 3448 (32 mm²/s at 40°C) or HOERBIGER special oil, Order No.: KY 8766 (Cat.-No. 5.61.050E)



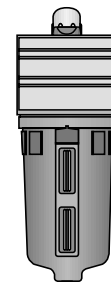
Oil mist lubricator

G3/4, G1

Standard with metal bowl



XL



Oil mist lubricator with flow compensation (number of drops per minute is constant)

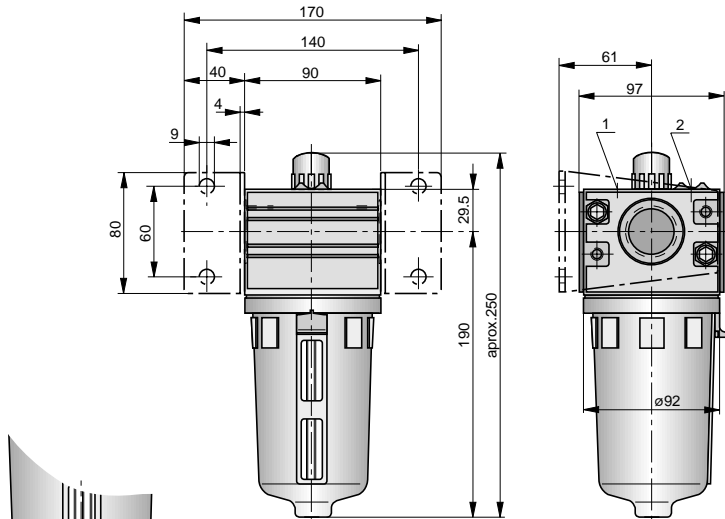
- Modular system
- Modern design
- Version with NPTF thread



For single units see 5.22.003E-5.22.007E
For air preparation units see 5.22.002E, 5.22.003E
For product group list see 5.22.001E

Dimensions (mm)

Type: XL-3/4
XL-1

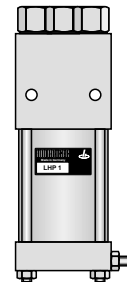


Version -F
(Bowl with
automatic refilling)

1 = oil adjusting screw
2 = oil refilling plug

Accessories

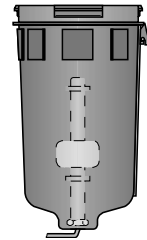
Air hydraulic pump Typ LHP1
For further details see 5.61.001E



Order No.: PB 05949-000

Accessories

**Bowl with oil level control
(float-type switch)**



Order No.: PL 16107

Order Instructions

Description	Port size	Type	Order No.
Basic model	G3/4	XL-3/4	PB 34449-100
Basic model	G1	XL-1	PB 34549-100
With automatic oil refilling	G3/4	XL-3/4-F	PB 34449-102
With automatic oil refilling	G1	XL-1-F	PB 34549-102

Accessories

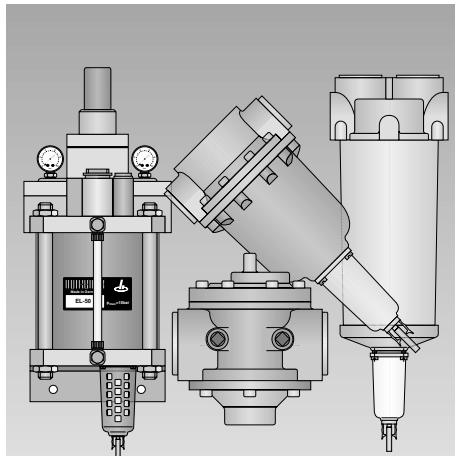
Description	Order No.
Mounting kit	PL 15669
Coupling kit	PL 15670
Porting block kit G1/2 to provide unlubricated air	PL 15672
Air hydraulic pump LHP1	PB 05949-000
Solvent resistant sight glass	PL 15717
Bowl with oil level control (float-type switch) for XL	PL 17791
Bowl with automatic refilling for XL	PL 17387
3/2 way shut-off valve G3/4, G1	PB 33849-100, PB 33949-100

**PNEUMATIC
GROUP**

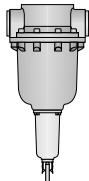
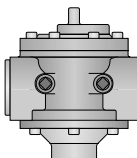


**LARGE AIR
PREPARATION UNITS**

G1 1/2-G2

airfit magnum



HOERBIGER
ORIGA

		Port size	Recommended flow (l/min)*	Type	Data Sheet No.
Filter-water-separator		G1 1/2	8000	LF 7-40	5.50.002E
		G2	10000	LF 7-50	
Pressure regulating valve		G1 1/2	8000	LRV 5-40	5.55.002E
		G2	10000	LRV 5-50	
Micro-mist lubricator		G1	$Q_{min} = \text{ca. } 150$ $Q_{max} = 5500$	EL-25	5.92.002E
		G2	$Q_{min} = 200$ $Q_{max} = 16600$	EL-50	
Submicrofilters activated carbon filters		to G2			see Survey 5.80.001E
Table of Contents see 5.00.001E					

* For max. flows see diagrams on single data sheet.
Max. flow is much higher than the given recommended flow.

A3P076E71KY00X

The right to introduce technical modifications is reserved

Characteristics		Pressures quoted as gauge pressure		
System			Cyclone system and filter element	
Type			LF 7-40	LF 7-50
Port size			G11/2	G2
Pore size of filter element		µm	Standard: 30 On request: 5	
Max. condensate capacity		cm ³	220	
Condensate drainage			Standard: manual On request: fully automatic (float-type)	
Installation			Vertical	
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	0 +50 at 10 bar (further temperatures on request)	
Weight (mass)		kg	5.50	5.25
Pneumatic Characteristic				
Operating pressure range	p_{\min} p_{\max}	bar bar	0 10	
Recommended flow	Q_n	l/min m ³ /h	8000¹⁾ 480¹⁾	10000²⁾ 600²⁾
Degree of moisture separation at recommended flow	η	%	94	92

¹⁾ at 6 bar and 15 m/s

²⁾ at 6 bar and 12 m/s

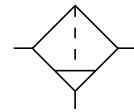
Filter-Water-Separator G11/2, G2

airfit magnum

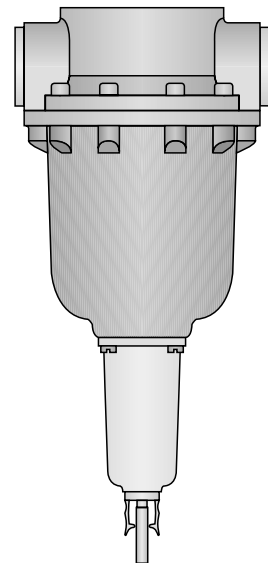
Degree of moisture separation **94 (92) %**

Series LF7

LF7-..

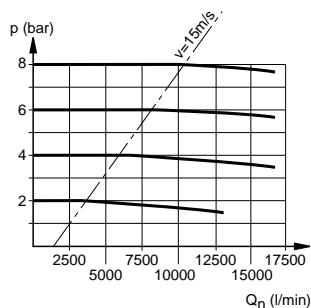


Filter-water-separator with cyclone system and filter element.



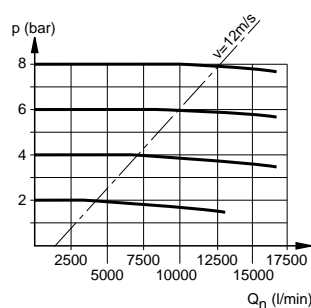
Flow Characteristics

Type: LF 7-40



Flow Characteristics

Type: LF 7-50



For pressure regulating valve see 5.55.002E

Data Sheet No. 5.50.002E-1

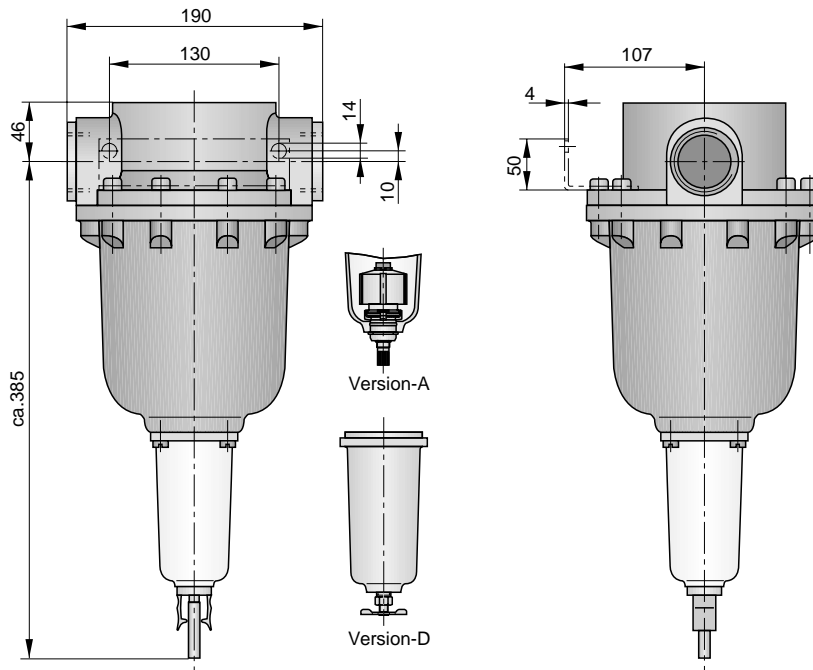
HOERBIGER
ORIGA

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The right to introduce technical modifications is reserved

Dimensions (mm)

Type: LF 7-40/50



Order Instructions

Description	Port size	Type	Order No.
Basic model	G11/2	LF 7-40	PB 15049-000
Basic model	G2	LF 7-50	PB 15149-000
With filter element 5 µm	G11/2	LF 7-40-5	PB 15049-016
With filter element 5 µm	G2	LF 7-50-5	PB 15149-016
With automatic drainage	G11/2	LF 7-40-A	PB 15049-002
With automatic drainage	G2	LF 7-50-A	PB 15149-002
With metal bowl	G11/2	LF 7-40-D	PB 15049-003
With metal bowl	G2	LF 7-50-D	PB 15149-003
With automatic drainage and metal bowl	G11/2	LF 7-40-AD	PB 15049-005
With automatic drainage and metal bowl	G2	LF 7-50-AD	PB 15149-005

Accessories

Description	Order No.
Mounting kit	PL 08022
Metal bowl	PL 08089

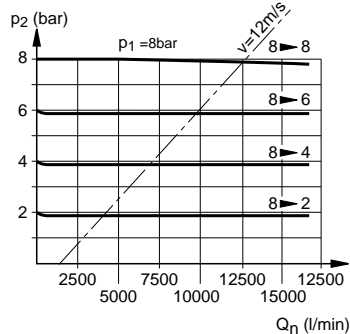
Characteristics		Pressures quoted as gauge pressure	
System		Pilot operated diaphragm-type pressure regulating valve with secondary pressure relief and flow compensation - suitable for remote control	
Type		LRV 5-40	LRV 5-50
Port size		G11/2	G2
Installation		In any position	
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	-20 +80 (further temperatures on request)
Weight (mass)		kg	3.25
Pneumatic Characteristic			
Operating pressure range - inlet pressure	$p_{1\min}$ $p_{1\max}$	bar bar	0 16
Operating pressure range - outlet pressure	$p_{2\min}$ $p_{2\max}$	bar bar	0 10 ($p_{st} > 10\text{bar}$)
Min. pressure difference	$p_1 - p_2$	bar	0.2
Hysteresis $p_1=10/p_2=0$		bar	0.6
Hysteresis $p_1=10/p_2=10$		bar	0.1
Recommended flow	Q_n	l/min m ³ /h	8000 ¹⁾ 480 ¹⁾ 10000 ²⁾ 600 ²⁾
Own air usage			Low
Recommended pilot pressure regulating valve			SR-1/4

¹⁾ at $p_2 = 6$ bar and 15 m/s

²⁾ at $p_2 = 6$ bar and 12 m/s

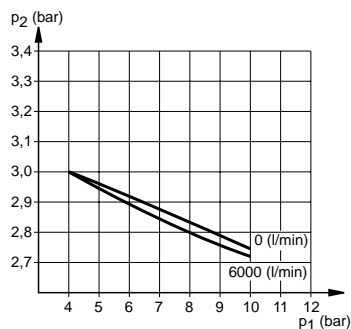
Flow Characteristics

Type: LRV 5-50



Outlet Pressure Variation with Fluctuating Inlet Pressure

Type: LRV 5-40/50



For filter-water-separator see 5.50.002E
For pilot pressure regulating valve see 5.12.006E

Data Sheet No. 5.55.002E-1

Pressure Regulating Valve

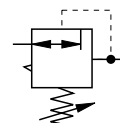
G2(G11/2)

Pilot operated

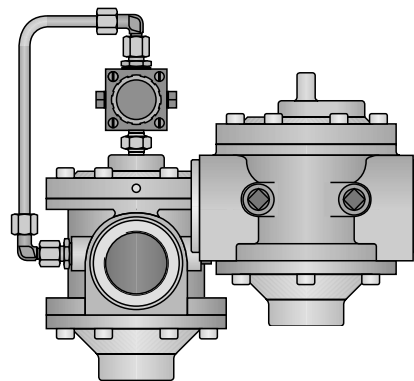
airfit magnum

Series LRV 5

LRV5-..



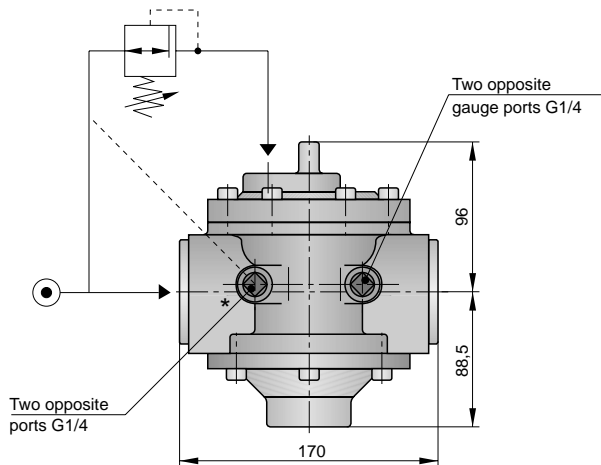
Pilot operated diaphragm-type pressure regulating valve with secondary pressure relief and flow compensation - suitable for remote control



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Dimensions (mm)

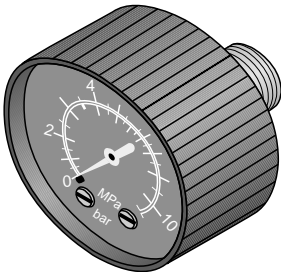
Type: LRV 5-50 (40)



*) On delivery the plug screw is not assembled.

Accessories

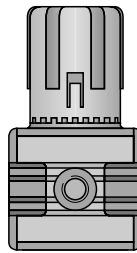
Gauge
Ø 63 mm, 0-10 bar, G1/4



Order No.: KZ 8817

Accessories

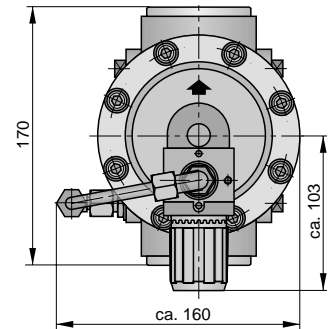
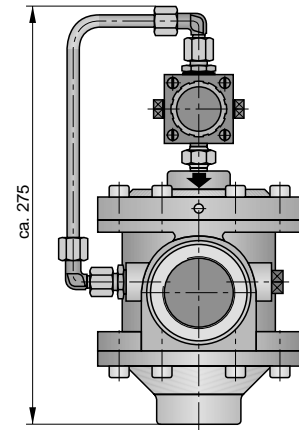
Recommended pilot pressure regulating valve Type SR-1/4



Order No.: PB 45449-040

Dimensions (mm)

Type: LRV 5-50 (40)
Assembled complete with pilot pressure regulating valve, Type SR-1/4



Order Instructions

Description	Port size	Type	Order No.
Basic model	G11/2	LRV 5-40	PB 15249-000
Basic model	G2	LRV 5-50	PB 15349-000
Complete version (incl. SR-1/4)	G11/2	LRV 5-40	PB 15249-020
Complete version (incl. SR-1/4)	G2	LRV 5-50	PB 15349-020

Accessories

Description	Order No.
Gauge, Ø 63 mm, 0-10 bar, G1/4	KZ 8817
Mounting bracket	PL 08028
Recommended pilot pressure regulating valve SR-1/4	PB 45449-000

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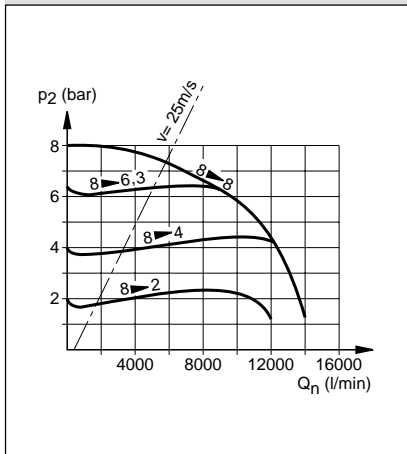
The right to introduce technical modifications is reserved

Characteristics		Pressures quoted as gauge pressure	
System		Pilot operated diaphragm-type pressure regulating valve with secondary pressure relief and flow compensation - suitable for remote control	
Type		XRV-3/4	XRV-1
Port size		G3/4	G1
Installation		In any position	
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	0 +60 (further temperatures on request)
Weight (mass)		kg	1.25
Pneumatic Characteristic			
Operating pressure range - inlet pressure	$p_{1\min}$ $p_{1\max}$	bar bar	0 16
Operating pressure range - outlet pressure	$p_{2\min}$ $p_{2\max}$	bar bar	0.5 8
Min. pressure difference	$p_1 - p_2$	bar	0.2
Hysteresis $p_1=10/p_2=0$ Hysteresis $p_1=10/p_2=10$		bar bar	0.6 0.2
Recommended flow ¹⁾	Q_n	l/min m ³ /h	3500 210 5000 300
Maximum flow ²⁾	Q_n	l/min m ³ /h	12500 750 13500 810
Own air usage			Low (0.8 x p_2 [l/min])
Recommended pilot pressure regulating valve			SR-1/4

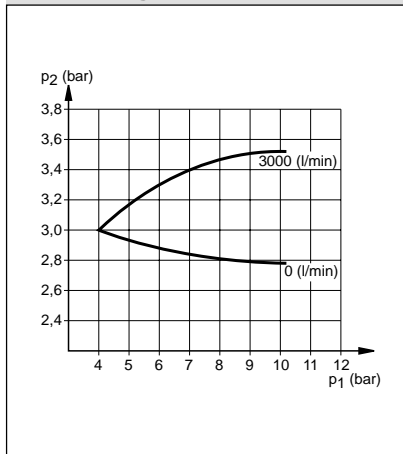
¹⁾ at $p_2 = 6$ bar and 25 m/s

²⁾ at $p_1=10$ bar on $p_2=6.3$ p $\Delta=1$ bar

Flow Characteristics



Outlet Pressure Variation with Fluctuating Inlet Pressure

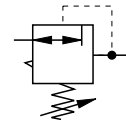


Pressure Regulating Valve

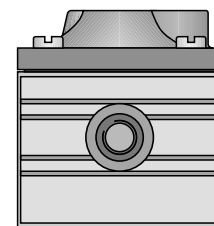
G3/4, G1



XRV



Pilot operated diaphragm-type pressure regulating valve with secondary pressure relief and flow compensation - suitable for remote control



- Modular system
- Modern design
- Version with NPTF thread

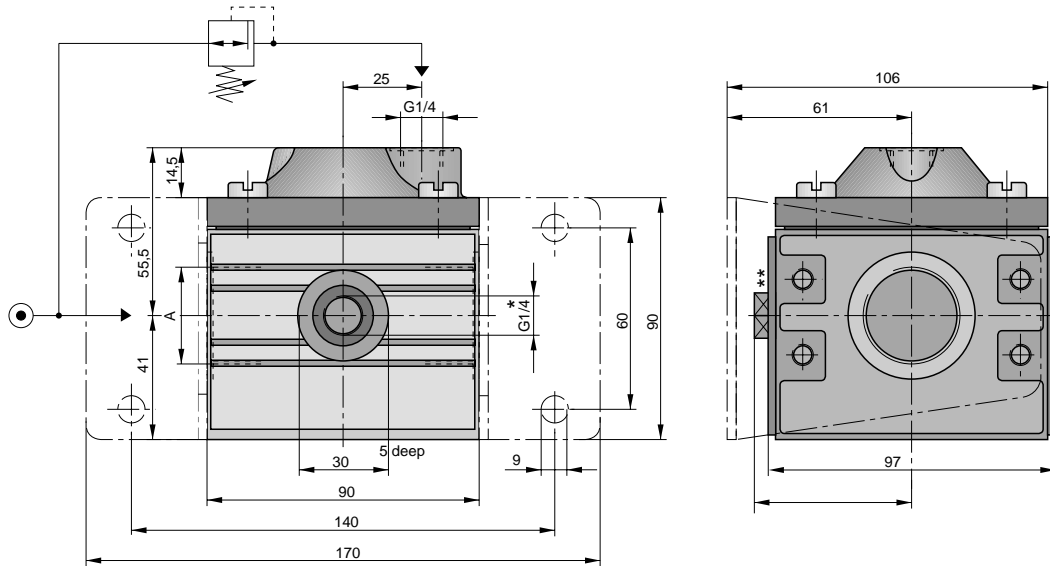
For filter-water-separator see 5.22.005E
For pilot pressure regulating valve see 5.12.006E

Data Sheet No. 5.55.003E-1



Dimensions (mm)

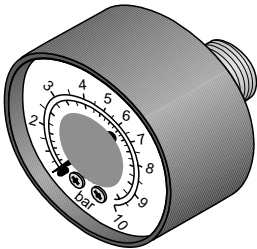
Type: XRV-3/4
XRV-1



- *) Two opposite gauge ports G1/4
**) On delivery the plug screw is not assembled.

Accessories

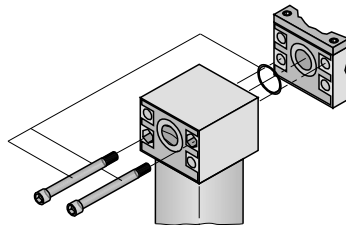
Gauge
Ø 63 mm, 0-10 bar, G1/4



Order No.: KG 8002

Accessories

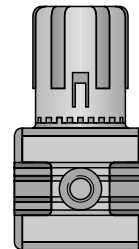
Coupling kit
for connecting 2 single units



Order No.: PL 15670

Accessories

Recommended pilot pressure regulating valve Type SR-1/4



Order No.: PB 45449-000

Order Instructions

Description	Port size	Type	Order No.
Basic model	G3/4	XRV-3/4	PB 34649-110
Basic model	G1	XRV-1	PB 34749-110

Accessories

Description	Order No.
Gauge, Ø 63 mm, 0-10 bar, G1/4 (HOERBIGER-design)	KG 8002
Mounting kit	PL 15669
Coupling kit for connection AIRFIT X	PL 15670
Recommended pilot pressure regulating valve SR-1/4	PB 45449-000
3/2 way shut-off valve G3/4, G1	PB 33849-100, PB 33949-100

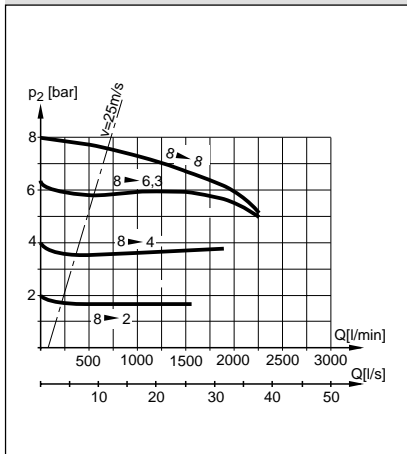
Data Sheet No. 5.55.003E-2

Characteristics		Pressures quoted as gauge pressure	
System			Pilot operated diaphragm-type pressure regulating valve with secondary pressure relief and flow compensation - suitable for remote control
Type			SRV-1/4
Anschlußgröße			G1/4
Installation			In any position
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	0 +60 (further temperatures on request)
Weight (mass)		kg	0.4
Pneumatic Characteristic			
Operating pressure range - inlet pressure	$p_{1\min}$ $p_{1\max}$	bar bar	0 16
Operating pressure range - outlet pressure	$p_{2\min}$ $p_{2\max}$	bar bar	0.5 8
Min. pressure difference	$p_1 - p_2$	bar	0.2
Hysteresis $p_1=10/p_2=0$		bar	0.5
Hysteresis $p_1=10/p_2=10$		bar	0.4
Recommended flow ¹⁾	Q_n	l/min m ³ /h	550 33
Maximum flow ²⁾	Q_n	l/min m ³ /h	2200 132
Recommended pilot pressure regulating valve			SR-1/8

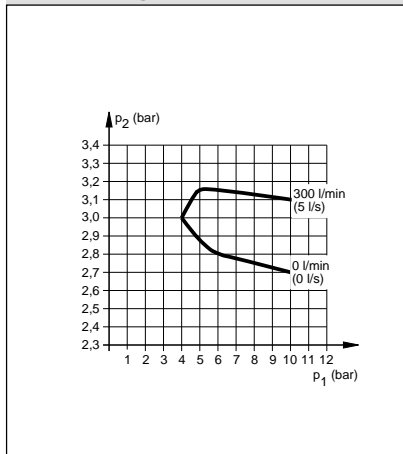
¹⁾ at $p_2 = 6$ bar and 25 m/s

²⁾ at $p_1 = 10$ bar and $p_2 = 6.3$ bar, $\Delta p = 1$ bar

Flow Characteristics



Outlet Pressure Variation with Fluctuating Inlet Pressure

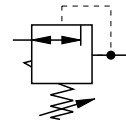


Pressure Regulating Valve

G1/4



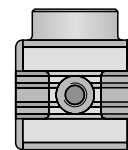
SRV



Pilot operated diaphragm-type pressure regulating valve with secondary pressure relief and flow compensation - suitable for remote control.

Easily adaptable to customer's choice of colour and private labelling.

- Version with NPTF thread

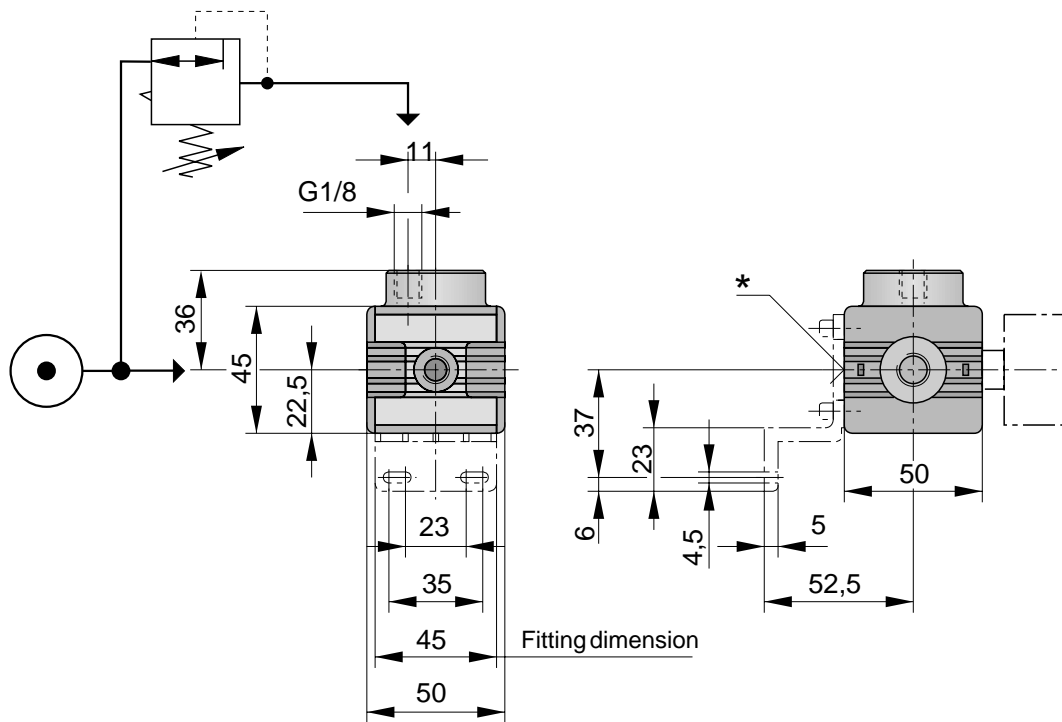


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For filter-water-separator see 5.12.005E
For pilot pressure regulating valve see 5.12.006E

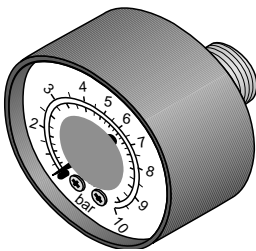
Dimensions (mm)
Type: SRV-1/4



*) Two opposite gauge ports G1/8 – On delivery the plug screw is not assembled.

Accessories

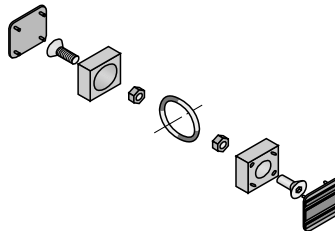
Gauge
 Ø 40 mm, 0-10 bar, G1/8



Order No.: KZ 8891

Accessories

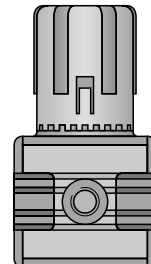
Coupling kit
 for connecting 2 single units



Order No.: PL 16959

Accessories

Recommended pilot pressure regulating valve Type SR-1/8



Order No.: PB 45349-000

Order Instructions

Description	Port size	Type	Order No.
Basic model	G1/4	SRV-1/4	PB 45449-070

Accessories

Description	Order No.
Gauge , Ø 40 mm, 0-10 bar, G1/8	KZ 8891
Mounting kit SRV	PL 16965
Coupling kit SRV	PL 16959
Recommended pilot pressure regulating valve SR-1/8	PB 45349-000
Porting block kit G1/4/ 3 x G1/8 (incl. Coupling kit) *)	PL 16969

*)With built-in check valve type: SXV on request

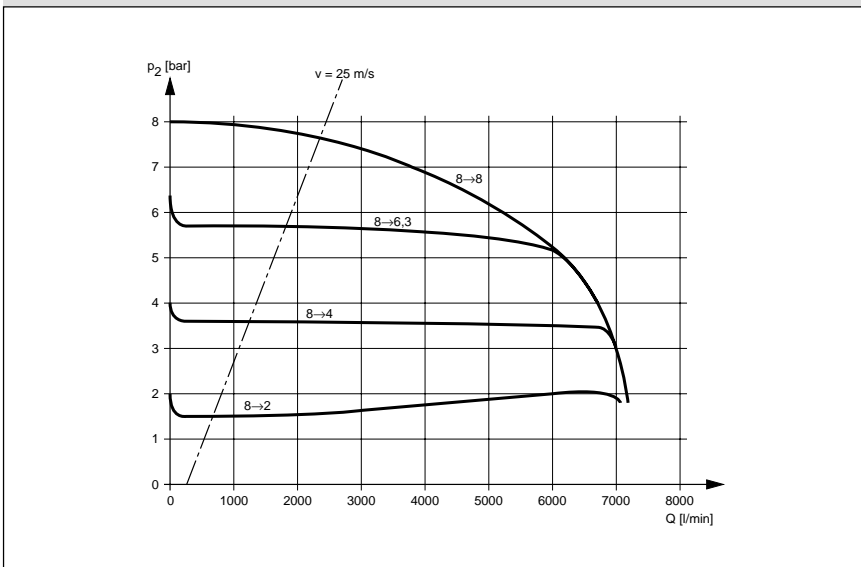
A1P630D00GY00X

Characteristics		Pressures quoted as gauge pressure		
System			Pilot operated piston-type pressure regulator with secondary pressure relief and flow compensation -suitable for remote control	
Type			CRV-3/8	CRV-1/2
Port size			G3/8	G1/2
Installation			In any position	
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	0 +60	(further temperatures on request)
Weight (mass)		kg	0,5	0,5
Pneumatic Characteristic				
Operating pressure range - inlet pressure	$p_{1\min}$	bar	0	
	$p_{1\max}$	bar	16	
Operating pressure range - outlet pressure	$p_{2\min}$	bar	0,5	
	$p_{2\max}$	bar	8	
Min. pressure difference	$p_1 - p_2$	bar	0,2	
Hysteresis $p_1=10/p_2=0$		bar	0,3	
Hysteresis $p_1=10/p_2=8$		bar	0,3	
Recommended flow ¹⁾	Q_n	l/min m ³ /h	850 51	1900 114
Maximum flow ²⁾	Q	l/min m ³ /h	5300 318	7200 432
Own air usage			Low	
Recommended pilot pressure regulating valve			SR-1/4	

¹⁾ at $p_2 = 6$ bar and 25 m/s

²⁾ at $p_1 = 10$ bar and $p_2 = 6,3$ bar and $\Delta p = 1$ bar

Flow Characteristics Type: CRV-1/2



The right to introduce technical modifications is reserved

For filter-water-separator see 5.19.005E
For pilot pressure regulating valve see 5.12.006E

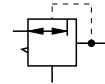
Data Sheet No. 5.55.006E-1

Pressure Regulating Valve

G3/8, G1/2

airfit comfort

CRV



Pilot operated piston-type pressure regulator with secondary pressure relief and flow compensation -suitable for remote control.

- modern design
- bracket ready to fit
- ready for direct wall mounting
- variant with NPTF thread



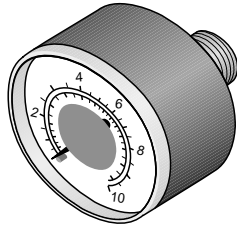
HOERBIGER

ORIGA

Accessories

Gauge

Ø 50, 0-10 bar, G1/4

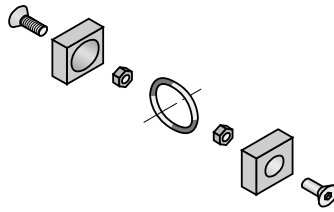


Order No.: KG 8011

Accessories

Coupling kit

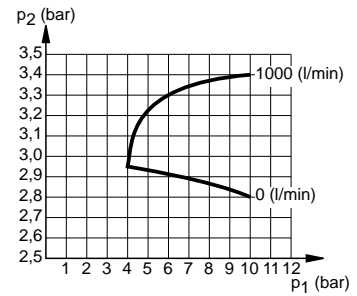
for connecting 2 single units



Order No.: PL 17608

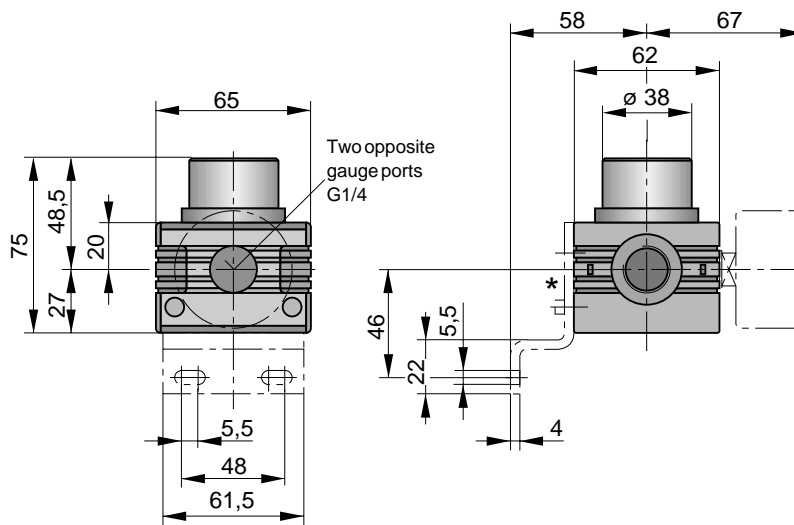
Outlet pressure variations with varying inlet pressure

CRV-1/2



Dimensions (mm)

Type: CRV-1/2



*) On delivery the plug is not assembled.

Order Instructions

Description	Port size	Type	Order No.
Basic model	G3/8	CRV-3/8	PB 55549-070
	G1/2	CRV-1/2	PB 55649-070
actuation without own air consumption - for actuation by an electronic regulator (see data sheet 5.96.004)	G3/8	CRV-3/8-SO	PB 55549-071
	G1/2	CRV-1/2-SO	PB 55649-071

Accessories

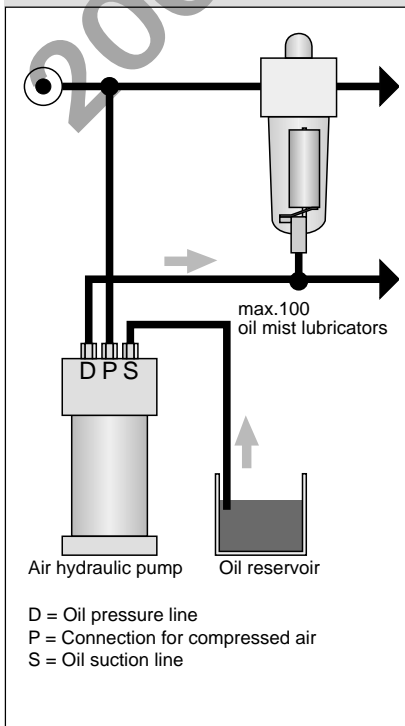
Description	Order No.
Gauge, Ø 50, 0-10 bar, G1/4	KG 8011
Mounting kit	PL 17518
Coupling kit	PL 17608
Porting block kit G1/2/G1/4	PL 17607
Porting block kit G1/2 and hole pattern for pressure switch (6.00.003)	PL 17609
Keylock complete	PL 17127
3/2 way shut-off valve (spool type valve) CDV-3/8-XS/CDV-1/2-XS	PB 56849-000, PB 56949-000
Adaptor set G3/4	PL 17682

Air Hydraulic Pump

Series LHP

Characteristics		Pressures quoted as gauge pressure	
System			Air operated, self priming piston pump automatically controlled by demand
Type			LHP 1
Port size			G1/8
Installation			Axis of pump vertical, connections on top
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	0 +60 (further temperatures on request)
Weight (mass)		kg	1.30
Pneumatic Characteristic / Hydraulic Characteristic			
Operating pressure range (port P)	p_{\min} p_{\max}	bar bar	4 16
Feed pressure (port D)	p	bar	2-5 above set air side operating pressure in static operation, min. 3 in dynamic operation
Oil feed	Q	cm ³ /min	max. 100 (für max. 100 lubricators)
Pump frequency	f	Strokes/min	0-45
Air consumption	Q_n	l/min	0-30 at 6 bar

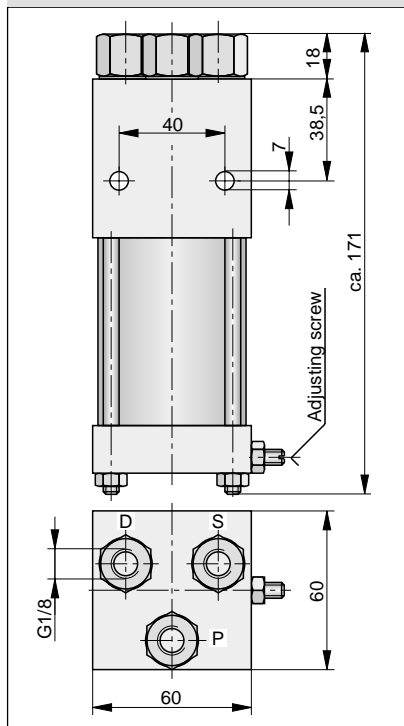
Installation Instructions



Application:

Continuous oil feed at a pressure which is higher than the air side operating pressure by a constant amount. The pump switches on and off automatically depending on the amount of oil required to refill the oil reservoir as a result of oil usage.

Dimensions (mm)



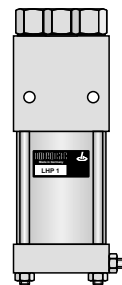
Notes on the Adjusting Screw:

Pump does not run, although air pressure is on: unscrew slotted screw until pump runs, then secure with locknut.

Pump runs too fast with short strokes: screw slotted screw in until pump runs normally, then secure with locknut.

Readjustment will be needed if inlet and outlet parameters are changed.

- Accessories for airfit prestige



The air hydraulic pump is used for automatic refilling of lubricators with an automatic refilling device (Version-F).

HOERBIGER
ORIGA

Order No.: PB 05949-000

Data Sheet No. 5.61.001E

A1P126E00KY00X

The right to introduce technical modifications is reserved

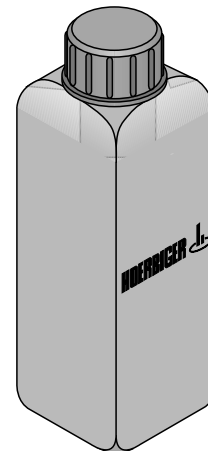
A1P253E00KY00X

The right to introduce technical modifications is reserved

Special Oil

for Pneumatic Lubricators

Viscosity VG32



Contents: 1 litre

Technical Data

Use	for all HOERBIGER lubricators systems Specially tried and tested for compatibility with valve and cylinder seals as well as polycarbonate plastic bowls.
Viscosity	Viscosity VG32 to ISO 3448 5° C 250 mm ² /s (cst) 20° C 100 mm ² /s (cst) 40° C 32 mm ² /s (cst) when using below freezing point (0°C) it is necessary to consult us
Contents	1 litre

Order No.: KY 8766

Data Sheet No. 5.61.050E

HOERBIGER
ORIGA

Characteristics		Pressures quoted as gauge pressure	
System			Float controlled condensate drain valve (fully automatic)
Material	Float controller		Plastic (PP-black)
	Housing		Brass/plastic
	Seals		Oil resistant rubber
Condensate drainage			- during operation when reaching a certain condensate level - during pressure relief - manual (by turning the drain cock)
Installation			Vertical
Mounting			In the bowl with a circlip
Weight (mass)		kg	0.06
Operating pressure range		p_{min} p_{max}	bar bar 0 16
Temperature		ϑ_{min} ϑ_{max}	°C °C 0 80

Drain Valve

Fully automatic
for condensate drainage

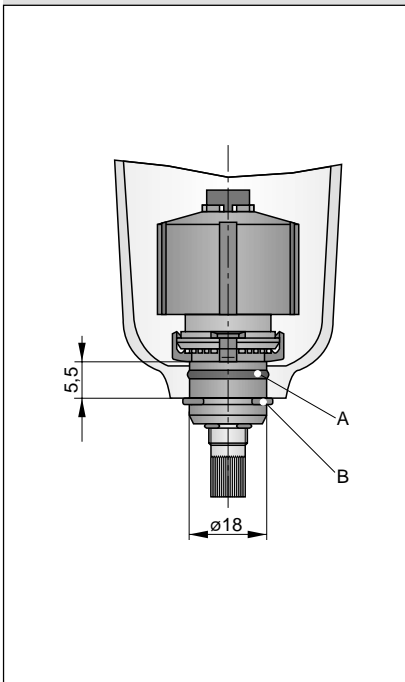
Assembly kit

airfit drain

DV-1/2i



Installation Drawing



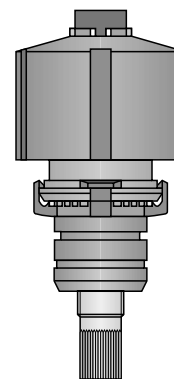
Installation Procedure

1. Lightly grease seal ring A before assembly.
2. Insert the drain valve into the bowl from the top.
3. Secure the drain valve outside the bowl with circlip B.

Float controlled drain valve for automatic condensate drainage in filter-water-separators.

For assembly in all plastic and metal bowls of HOERBIGER's AIRFIT comfort, prestige and magnum series as well as in other pneumatic filters with suitable installation dimensions.

Comprises:
Drain valve with seal ring,
Circlip



Order Instruction: Type: DV-1/2i Order No.: PL16165

For filter-water-separator see 5.20.010E, 5.20.011E
For product group list see A3P037E

Data Sheet No. 5.62.002E

HOERBIGER
ORIGA

A1P170E00KY00X

The right to introduce technical modifications is reserved

A1P444E00KY00X

The right to introduce technical modifications is reserved

Characteristics		Pressures quoted as gauge pressure	
System		Float controlled condensate drain valve (fully automatic)	
Type		DV-1/2e	
Port size		G1/2	
Material	Float controller	Stainless steel	
	Housing	Aluminium	
	Seals	Oil resistant rubber	
Condensate drainage		- During operation when reaching a certain condensate level - Manual	
Installation		Horizontal (see sketch)	
Mounting		Double nipple	
Weight (mass)		kg	1.12
Operating pressure range		p_{\min} p_{\max} bar bar	0 20 (DV-1/2e)
Medium and ambient temperatures		ϑ_{\min} ϑ_{\max} °C °C	0 80

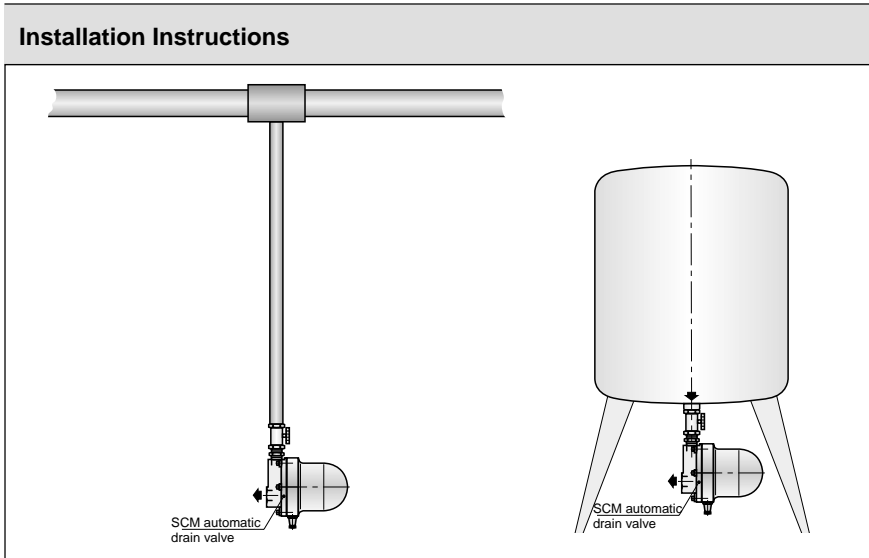
Drip leg drain valve

G1/2, G1

Fully automatic for condensate drainage

airfit drain

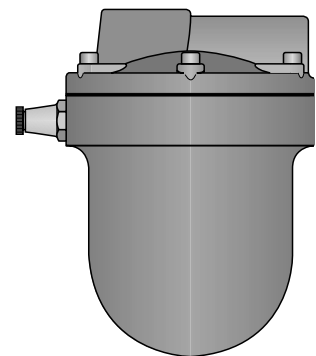
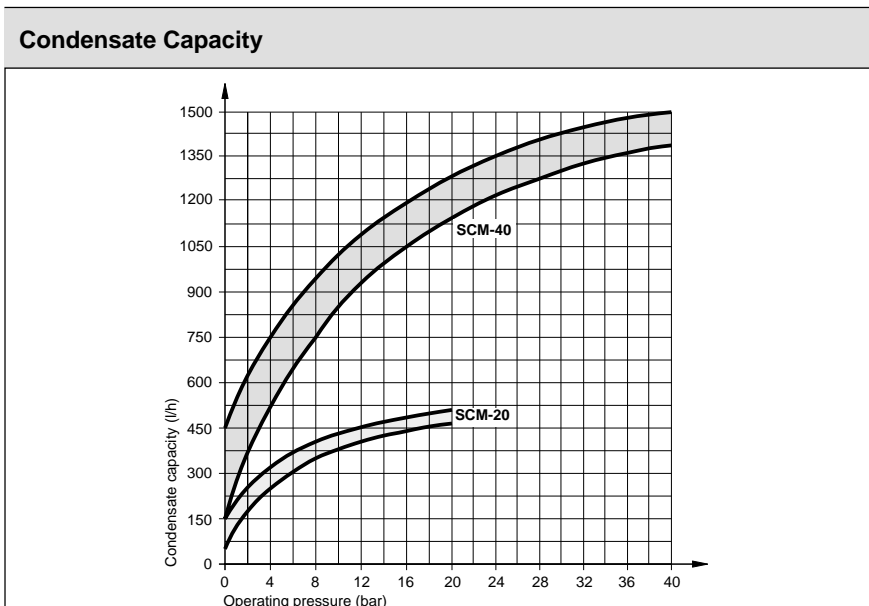
DV-1/2e



Float-type drain valve for fully automatic drainage of condensate from compressed air lines and receivers.

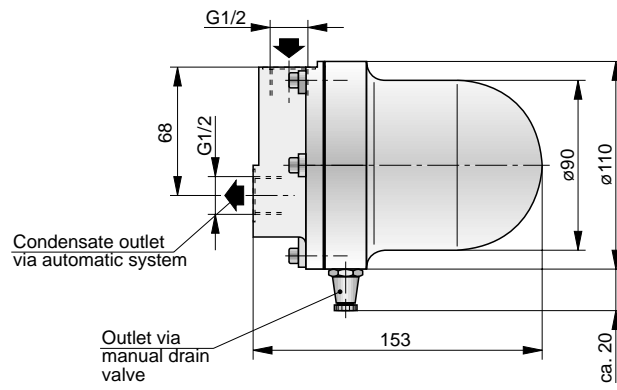
Recommended location:
Normally at the lowest point, where condensate and oil collect.

- Highly polluted condensate is no problem
- Float made of stainless steel
- Additional manual drain
- Oil resistant seals



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Dimensions (mm)
Type: DV-1/2e



Characteristics		Pressures quoted as gauge pressure	
System			Electronically controlled condensate drain valve without air consumption
Type		DV-3/4e	DV-3/4eht ¹⁾
Port size		G3/4 BSP external thread or G1/2 NPTF with gasket	
Suitable for max. compressor capacity max. dryer capacity	m ³ /min. m ³ /min.	5 10	
Short term peak condensate volume	l/h	30 at 7 bar	
Condensate temperature	°C	max. 60	
Ambient temperature	°C	1-60	
Pressure range	bar	0.8-16	
Weight (mass)	kg	1	
Electrical connection (self adjusting)		24-230 V DC, 80-230 V AC	
Power consumption	VA	5	
Connection	IP	65	
Resistance free contact		max. 300 V AC/DC	
Electronic relais (opens at failure)		max. 0.1 A	

¹⁾ Viton version, parts in contact with medium are coated.

Condensate Management

G3/4

Electronic Drain Valve

airfit drain

DV

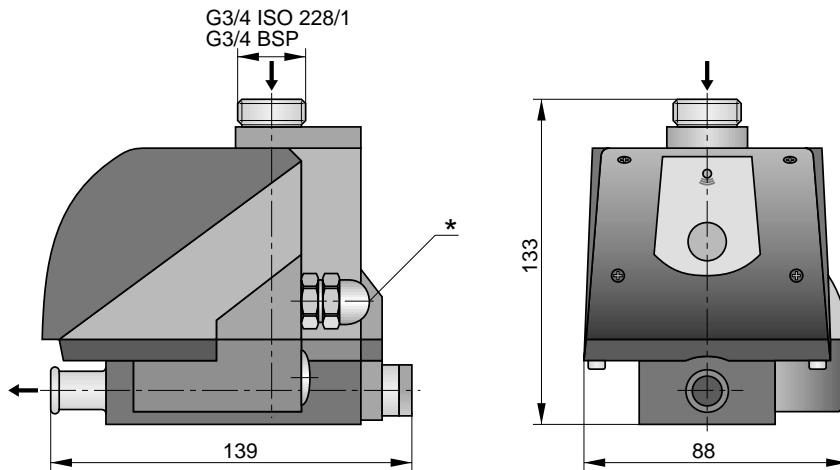
Installation instruction:
Please note the instruction manual.
Highly polluted condensate requires the use of a strainer (particle separation).



- For external application
- airfit design
- Level dependant control
- Universal voltage for international use
- Version for aggressive media

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ORIGA

Dimensions (mm)



* Electronic connection Pg 9

Order Instructions

Description	Port size	Type	Order No.
Basic model	G3/4	DV-3/4e	PBZ 5049-000
For aggressive media *	G3/4	DV-3/4eht	PBZ 5049-001

* Please consult us before operating this device.

A1P611E00KY00X

The right to introduce technical modifications is reserved

Characteristics		Pressures quoted as gauge pressure				
System		Gravity based oil-water separation system, additionally with activated carbon				
Type		DWS-120	DWS-250	DWS-450	DWS-900	DWS-1800
Volume in liters		25	50	75	150	300
Condensator capacity in Nm ³ /h ¹⁾		120	250	450	900	1800
Condensate connection (pressure less)		für Schlauch ø DI = 25 mm				
Residual oil ²⁾		bis <20 mg/l nach DIN 38409 H18				

¹⁾ Depending on condensor type and lubricant.
 – Please consult us for optimal sizing of your unit.
²⁾ When properly used (not suitable for emulsions) operated and maintained.

Condensate Management

Oil-water separation

airfit drain

DWS

- airfit design
- Disposal of activated carbon elements
- Reduction of up to 97% of materials to be disposed



Dimensions (mm)

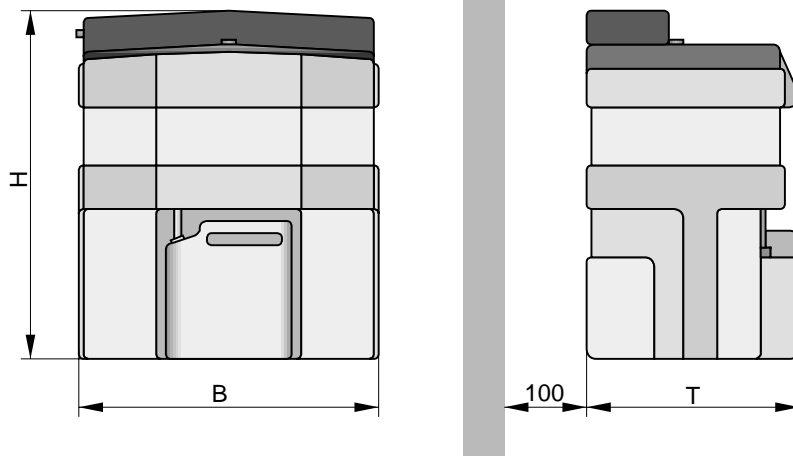


Table Dimensions (mm)

Dimensin	Type DWS-120	DWS-250	DWS-450	DWS-900	DWS-1800
B	345	440	477	665	775
H	555	655	725	840	961
T	300	430	460	510	650

Order Instructions

Description	Portsize	Type	Order No.
Basic model	for tubing \varnothing DI = 25 mm	DWS-120	PBZ 6049-000
		DWS-250	PBZ 6149-000
		DWS-450	PBZ 6249-000
		DWS-900	PBZ 6349-000
		DWS-1800	PBZ 6449-000

Accessories

Description		Type	Order No.
Heating system 230 V/50 Hz *	0,2 KW	DWS-120	KG 3013
	0,5 KW	DWS-250	KG 3014
		DWS-450	KG 3014
	1 KW	DWS-900	KG 3015
		DWS-1800	KG 3015
Mounting rail			on request

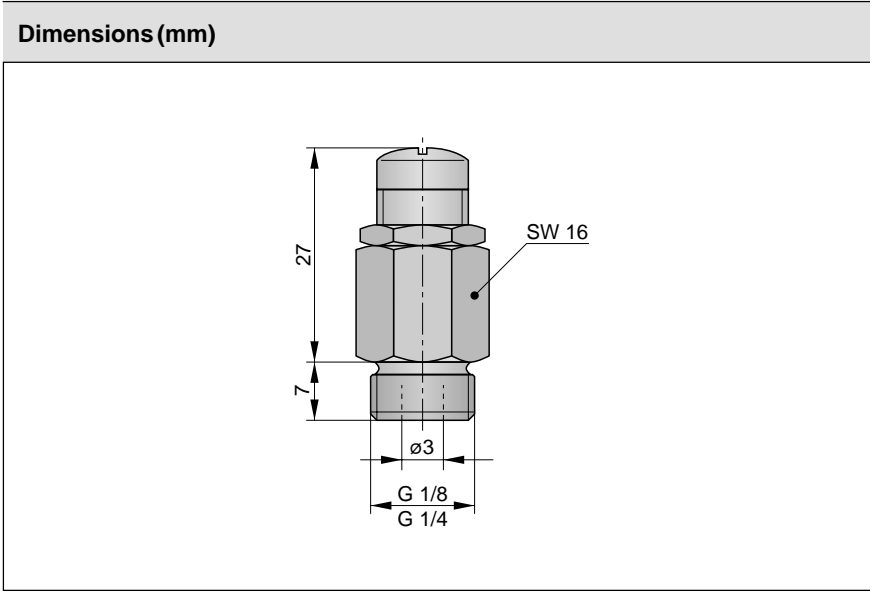
* 115 V/60 Hz on request

Relief Valve

Adjustment: 1-4 or 3-7 bar

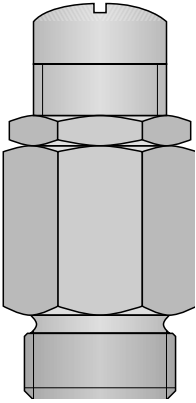
Series USV

Characteristics		Pressures quoted as gauge pressure	
System		Spring loaded poppet valve with adjustable opening pressure	
Type		USV-1/8	USV-1/4
Port size		G1/8	G1/4
Installation		In any position	
Temperature	\varnothing_{\min} \varnothing_{\max}	°C °C	0 +90
Medium		Compressed air	
Opening pressure		bar	1-4 or 3-7 (adjustable)



Order Instructions

Description	Port size	Type	Order No.
Relief Valve	G1/8	USV-1/8 (1-4 bar)	KY 4093
Relief Valve	G1/8	USV-1/8 (3-7 bar)	KY 4065
Relief Valve	G1/4	USV-1/4 (1-4 bar)	KY 4094
Relief Valve	G1/4	USV-1/4 (3-7 bar)	KY 4066



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The right to introduce technical modifications is reserved

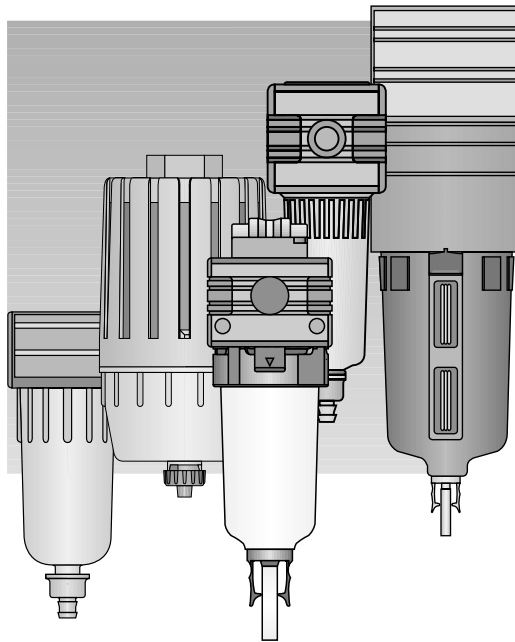
**PNEUMATIC
GROUP**

**SUBMICROFILTER,
ACTIVATED CARBON FILTER**

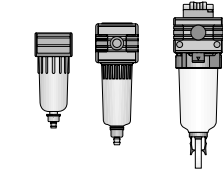
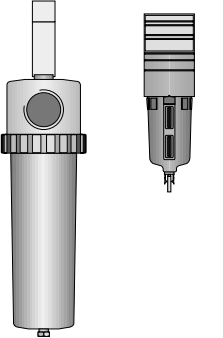
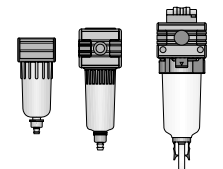
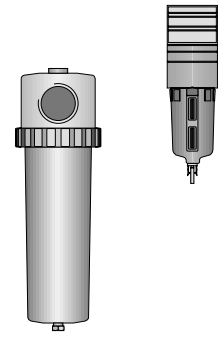

G1/8-G2

SERIES

airfitmicro



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Description		Port size	Recommended flow (l/min)	Type	Data Sheet No.
Submicrofilter		G1/8	125	MF 007-1/8	5.81.002E
		G1/4	125	MF 007-1/4	
		G1/8	200	MF 012-1/8	5.81.003E
		G1/4	200	MF 012-1/4	
		G3/8	200	MF 012-3/8	
		G3/8	600	MF 036-3/8	5.81.004E
	G1/2	600	MF 036-1/2		
		G1/2	1835	MF 110-1/2	5.81.005E
		G3/4	3080	MF 185-3/4	
		G1	3080	MF 185-1	5.81.006E
		G1	360	MF360-1-...	
		G11/4	480	MF 480-11/4-...	
	G11/2	720	MF720-11/2-...		
	Activated carbon filter		G1/8	125	MC007-1/8
G1/4			125	MC 007-1/4	
G1/8			200	MC 012-1/8	5.81.003E
G1/4			200	MC 012-1/4	
G3/8			200	MC 012-3/8	
G3/8			600	MC 036-3/8	5.81.004E
G1/2		600	MC 036-1/2		
		G1/2	1835	MC 110-1/2	5.81.005E
		G3/4	3080	MC 185-3/4	
		G1	3080	MC 185-1	5.81.007E
		G1	360	MC360-1-...	
		G11/4	480	MC 480-11/4-...	
G11/2		720	MC720-11/2-...		
Exhaust-silencer			G1/4	Please see diagram on Data Sheet	AF-08
	G3/8		AF-10		
	G1/2		AF-15		
	G3/4		AF-20		
	G1		AF-25		
	G2		AF-50		

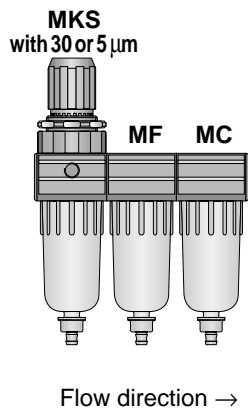
A3P120E71EAA00X

The right to introduce technical modifications is reserved

Characteristics		Pressures quoted as gauge pressure			
System		Submicrofilter		Activated carbon filter	
Type		MF 007-1/8	MF 007-1/4	MC 007-1/8	MC 007-1/4
Port size		G1/8	G1/4	G1/8	G1/4
Max. condensate capacity	cm ³	12		-	
Condensate drainage		Manual			
Installation		Vertical, bowl at the bottom			
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	0 (at 10 bar) +50		0 (at 10 bar) +40
Weight (mass)		0.1		0.1	
Pneumatic Characteristic					
Operating pressure range	p_{\min} p_{\max}	bar bar	0 10		0 10
Recommended flow at 6 bar	Q_{\max}	l/min m ³ /h	125 7.5		125 7.5
Pressure drop at recommended flow	Δp	bar	ab 0.1 (new element)		0.1
Degree of filtration at recommended flow	η	%	Over 99.99999%, related to 0.01 μm		
Residual oil amount (input conc. 3mg/m ³)		mg/m ³	< 0.01		0.003 p.p.m in combination with MF

Installation Procedure

To increase the life span of the filter elements, we recommend the following order.



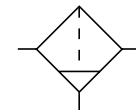
Submicro-filter and Activated Carbon Filter G1/8-G1/4

airfit micro

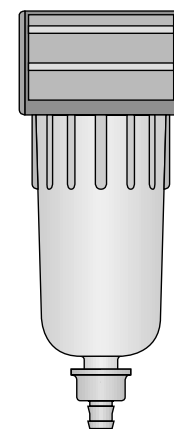
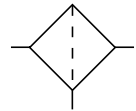
– for series AIRFIT light

Series

MF...-..



MC...-..



- Ultrafilter inside
- Airfit design
- 3 year warranty
- Version with NPTF thread

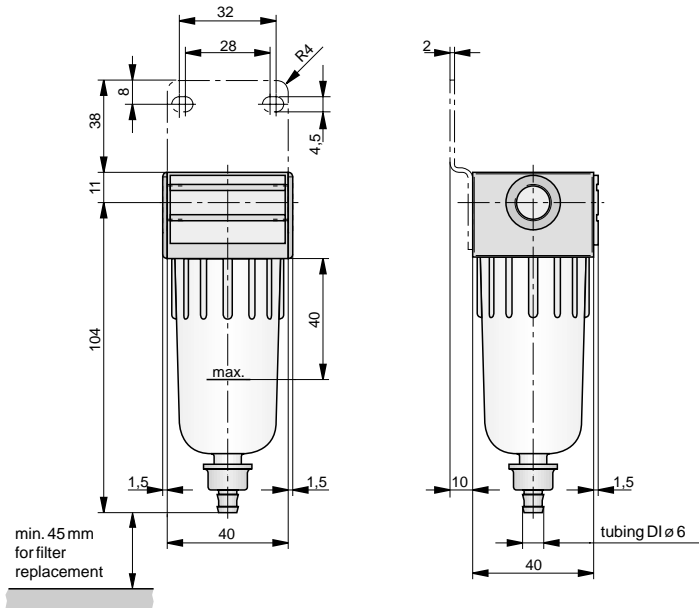
For product group list see 5.81.001E
For filter-water-separators see 5.09.005E

Data Sheet No. 5.81.002E-1



Dimensions (mm)

Type: MF 007-..
MC 007-..



Accessories

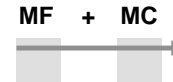
Coupling kit



Order No.: PL 16755

Accessories

Coupling kit



Order No.: PL 16669

Order Instructions

Description	Port size	Order Instructions	
		Type	Order No.
Submicrofilter – basic model	G1/8	MF 007-1/8	PB 37349-000
	G1/4	MF 007-1/4	PB 37449-000
Aktivated carbon filter – basic model	G1/8	MC 007-1/8	PB 37849-000
	G1/4	MC 007-1/4	PB 37949-000

Accessories

Mounting kit	PL 16859
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Characteristics		Pressures quoted as gauge pressure					
System		Submicrofilter			Activated carbon filter		
Type		MF012-1/8	MF012-1/4	MF012-3/8	MC012-1/8	MC012-1/4	MC012-3/8
Port size		G1/8	G1/4	G3/8	G1/8	G1/4	G3/8
Max. condensate capacity	cm ³	13			-		
Condensate drainage		Manual					
Installation		Vertical, bowl at the bottom					
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C 0 (at 10 bar) +50			0 (at 10 bar) +40		
Weight (mass)		0.3			0.3		
Pneumatic Characteristic							
Operating pressure range	p_{\min} p_{\max}	bar bar	0 10		0 10		
Recommended flow at 6 bar	Q_{\max}	l/min m ³ /h	200 12		200 12		
Pressure drop at recommended flow	Δp	bar	ab 0.1 (new element)		0.1		
Degree of filtration at recommended flow	η	%	Over 99.99999%, related to 0.01 μm				
Residual oil amount (input conc. 3mg/m ³)		mg/m ³	< 0.01		0.003 p.p.m in combination with MF		

Submicro-filter and Activated Carbon Filter

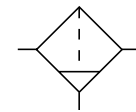
G1/8, G1/4, G3/8

airfit micro

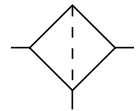
– for series AIRFIT swing

Series

MF...-..

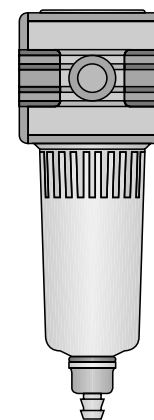
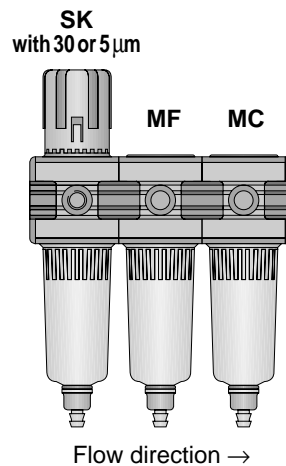


MC...-..



Installation Procedure

To increase the life span of the filter elements, we recommend the following order.



- Ultrafilter inside
- Airfit design
- 3 year warranty
- Version with NPTF thread

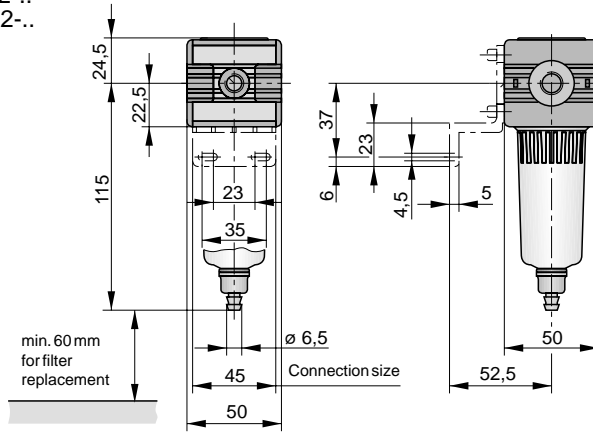
For product group list see 5.81.001E
For filter-water-separators see 5.12.005E

Data Sheet No. 5.81.003E-1

HOERBIGER
ORIGA

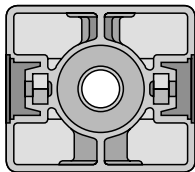
Dimensions (mm)

Type: MF 012-..
MC 012-..



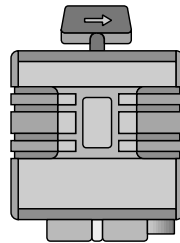
Accessories

Porting block kit



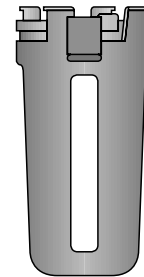
Order No.: PL 16969

3/2 way shut-off valve



Order No.: PB 46749-101 (G1/4)
PB 46849-101 (G3/8)

Bowl guard kit



Order No.: PL 16970

Order Instructions

Description	Port size	Order Instructions	
		Type	Order No.
Submicrofilter – basic model	G1/8	MF 012-1/8	PB 49049-000
	G1/4	MF 012-1/4	PB 49149-000
	G3/8	MF 012-3/8	PB 49249-000
Submicrofilter – with metal bowl	G1/8	MF 012-1/8-D	PB 49049-003
	G1/4	MF 012-1/4-D	PB 49149-003
	G3/8	MF 012-3/8-D	PB 49249-003
Submicrofilter – with metal bowl (sight glass)	G1/8	MF 012-1/8-E	PB 49049-004
	G1/4	MF 012-1/4-E	PB 49149-004
	G3/8	MF 012-3/8-E	PB 49249-004
Aktivated carbon filter – basic model	G1/8	MC 012-1/8	PB 49349-000
	G1/4	MC 012-1/4	PB 49449-000
	G3/8	MC 012-3/8	PB 49549-000
Aktivated carbon filter – with metal bowl	G1/8	MC 012-1/8-D	PB 49349-003
	G1/4	MC 012-1/4-D	PB 49449-003
	G3/8	MC 012-3/8-D	PB 49549-003
Aktivated carbon filter – with metal bowl (sight glass)	G1/8	MC 012-1/8-E	PB 49349-004
	G1/4	MC 012-1/4-E	PB 49449-004
	G3/8	MC 012-3/8-E	PB 49549-004

Accessories

Mounting kit

PL 16965

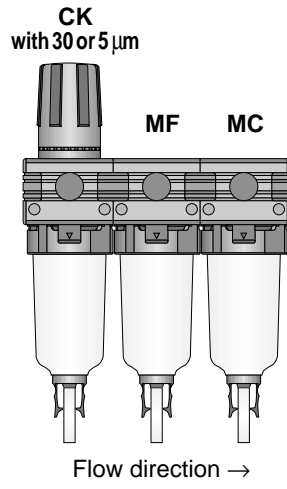
Coupling kit

PL 16959

Characteristics		Pressures quoted as gauge pressure			
System		Submicrofilter		Activated carbon filter	
Type		MF 036-3/8	MF 036-1/2	MC 036-3/8	MC 036-1/2
Port size		G3/8	G1/2	G3/8	G1/2
Max. condensate capacity	cm ³	48		-	
Condensate drainage		Manual, automatic		manual	
Installation		Vertical, bowl at the bottom			
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	0 (at 10 bar) +50		0 (at 10 bar) +40
Weight (mass)		0.6		0.6	
Pneumatic Characteristic					
Operating pressure range	p_{\min} p_{\max}	bar bar	0 10		0 10
Recommended flow at 6 bar	Q_{\max}	l/min m ³ /h	600 36		600 36
Pressure drop at recommended flow	Δp	bar	ab 0.1 (new element)		0.1
Degree of filtration at recommended flow	η	%	Over 99.99999%, related to 0.01 μm		
Residual oil amount (input conc. 3mg/m ³)		mg/m ³	< 0.01		0.003 p.p.m in combination with MF

Installation Procedure

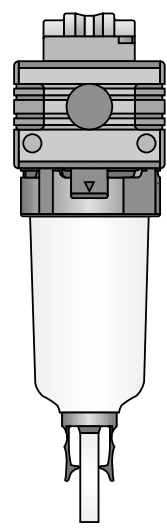
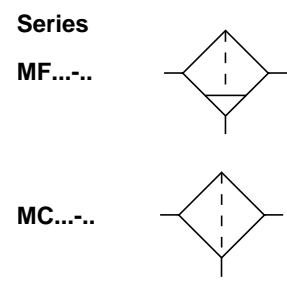
To increase the life span of the filter elements, we recommend the following order.



Submicro-filter and Activated Carbon Filter

G3/8, G1/2(G3/4)

airfitmicro
- for series AIRFIT comfort



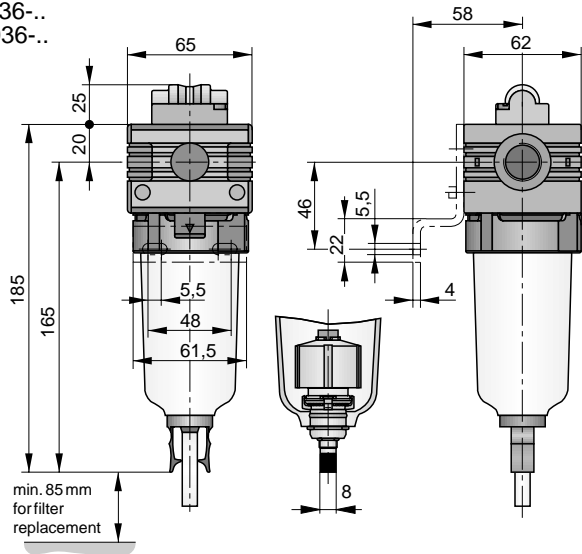
- Ultrafilter inside
- Airfit design
- Contamination indicator standard
- 3 year warranty
- Version with NPTF thread

For product group list see 5.81.001E
For filter-water-separators see 5.19.011E



Dimensions (mm)

Type: MF 036-..
MC 036-..



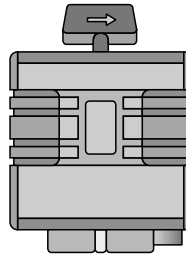
Accessories

Porting block kit



Order No.: PL 17607

3/2 way shut-off valve



Order No.: PB 56849-000 (G3/8)
PB 56949-000 (G1/2)

Bowl guard kit



Order No.: PL 17680

Order Instructions

Description	Port size	Order Instructions	
		Type	Order No.
Submicrofilter – standard with service life indicator	G3/8	MF 036-3/8-V	PB 59249-010
	G1/2	MF 036-1/2-V	PB 59349-010
Submicrofilter – additionally with automatic drain	G3/8	MF 036-3/8-AV	PB 59249-012
	G1/2	MF 036-1/2-AV	PB 59349-012
Submicrofilter – additionally with metal bowl and automatic drain	G3/8	MF 036-3/8-DAV	PB 59249-015
	G1/2	MF 036-1/2-DAV	PB 59349-015
Submicrofilter – additionally with metal bowl (sight glass) and automatic drain	G3/8	MF 036-3/8-EAV	PB 59249-016
	G1/2	MF 036-1/2-EAV	PB 59349-016
Aktivated carbon filter – basic model	G3/8	MC 036-3/8	PB 59549-000
	G1/2	MC 036-1/2	PB 59649-000
Aktivated carbon filter – with metal bowl	G3/8	MC 036-3/8-D	PB 59549-003
	G1/2	MC 036-1/2-D	PB 59649-003
Aktivated carbon filter – with metal bowl (sight glass)	G3/8	MC 036-3/8-E	PB 59549-004
	G1/2	MC 036-1/2-E	PB 59649-004

Accessories

Mounting bracket	PL 17518
Coupling kit	PL 17608
Adapter kit G3/4	PL 17682

Characteristics		Pressures quoted as gauge pressure					
System		Submicrofilter			Activated carbon filter		
Type		MF110-1/2	MF185-3/4	MF185-1	MC110-1/2	MC185-3/4	MC185-1
Port size		G1/2	G3/4	G1	G1/2	G3/4	G1
Max. condensate capacity	cm ³	155			-		
Condensate drainage		Manual, automatic			manual		
Installation		Vertical, bowl at the bottom					
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C 0 (at 10 bar) +50			°C 0 (at 10 bar) +40		
Weight (mass)		1.5			1.5		
Pneumatic Characteristic							
Operating pressure range	p_{\min} p_{\max}	bar 0 10				0 10	
Recommended flow at 6 bar	Q_{\max}	l/min 110	3080 185	3080 185	1835 110	3080 185	3080 185
Pressure drop at recommended flow	Δp	bar	ab 0.1 (new element)			0.1	
Degree of filtration at recommended flow	η	%	Over 99.99999%, related to 0.01 μm				
Residual oil amount (input conc. 3mg/m ³)		mg/m ³	< 0.01			0.003 p.p.m in combination with MF	

Submicro-filter and Activated Carbon Filter

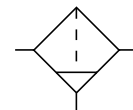
G1/2, G3/4, G1

airfit micro

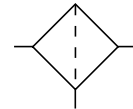
– for series AIRFIT prestige

Series

MF...-..



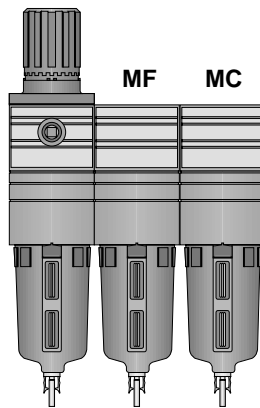
MC...-..



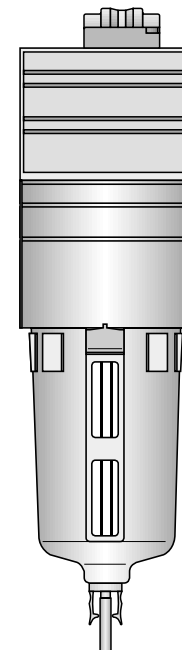
Installation Procedure

To increase the life span of the filter elements, we recommend the following order.

XK
with 30 or 5 μm



Flow direction →



- Ultrafilter inside
- Airfit design
- Contamination indicator standard
- 3 year warranty
- Version with NPTF thread

For product group list see 5.81.001E
For filter-water-separators see 5.22.005E

Data Sheet No. 5.81.005E-1

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ORIGA

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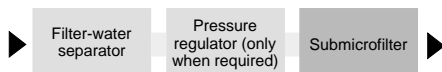
The right to introduce technical modifications is reserved

Characteristics		Pressures quoted as gauge pressure					
System		MF, MF+					
Type		Standard with metal bowl (with sight glass for MF1440), economizer and automatic drain valve DV-1/2i					
		MF360-1-DAV	MF480-11/4-DAV	MF720-11/2-DAV	MF1080-2-DAV	MF1440-2-EAV	
Weight (mass)	kg	2.5	2.5	7	7	10.7	
Condensate drainage		Automatic (float type)					
Type		Version with Economiser and electronically controlled drain valve DV-3/4e					
		MF360-1-DAV+	MF480-11/4-DAV+	MF720-11/2-DAV+	MF1080-2-DAV+	MF1440-2-EAV+	
Weight (mass)	kg	3.3	3.3	7.8	7.8	11.5	
Condensate drainage		Automatic (electronically controlled)					
General Characteristics							
Port size		G1	G1 1/4	G1 1/2	G2	G2	
Installation		Vertical, bowl at the bottom					
Medium and ambient temperatures	ϑ_{\min}	°C	0				
	ϑ_{\max}	°C	+60				
Housing material		Al					
Pneumatic Characteristic							
Operating pressure range	p_{\min}	bar	0				
	p_{\max}	bar	16				
Flow at 7 bar	maximal Q	m ³ /h	360	480	720	1080	1440
	nominal Q		270	360	480	720	1080
Pressure drop at recommended flow	Δp	bar	0.1 new element				
Effectivity at 20°C, 7 bar		mg/m ³ *	0.03				
Residual oil content	h	%	> 99,99999% related to 0.01 µm				

*) m³ related to 1 bar absolute and 20°C

Installation Procedure

To increase the life span of the filter elements, we recommend the following order



For product group list see 5.81.001E

Data Sheet No. 5.81.006E-1

Submicro-filter

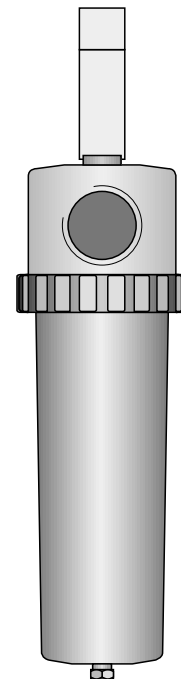
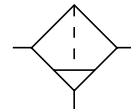
G1-G2

airfitmicro

–for series AIRFIT magnum

Series

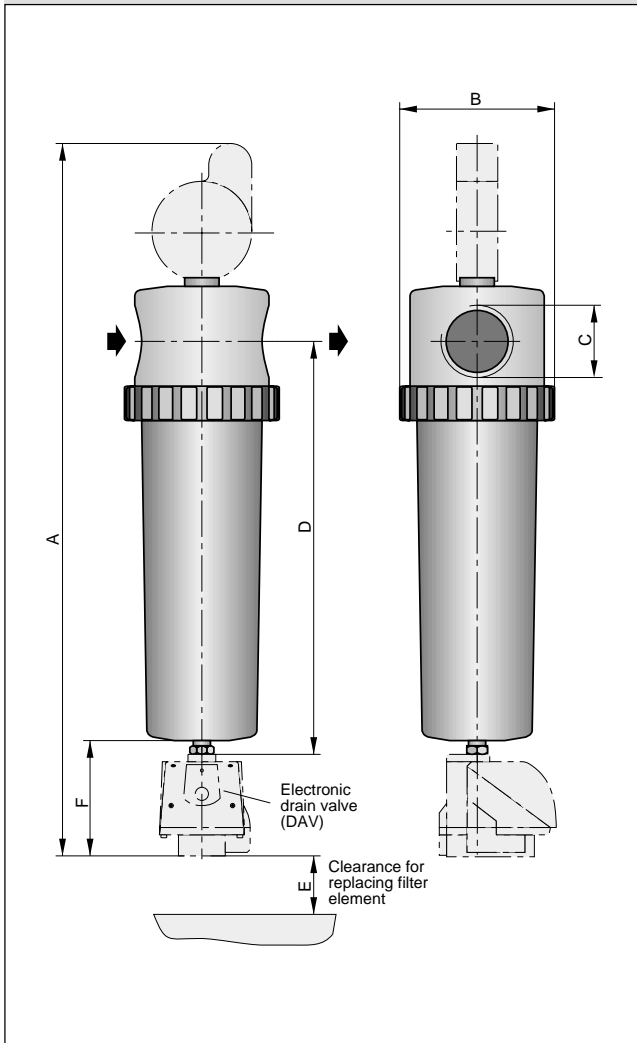
MF



- Ultrafilter inside
- Airfit design
- 5 year warranty on material durability

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ORIGA

Dimensions



Dimension Table (mm)

Type	A	B	C	D	E	F
MF360-1-DAV	430	110	G1	310	160	25
MF480-11/4-DAV	430	110	G11/4	310	200	25
MF720-11/2-DAV	585	150	G11/2	415	200	25
MF1080-2-DAV	585	150	G2	415	280	25
MF1440-2-EAV	720	160	G2	550	450	30
MF360-1-DAV+	575	110	G1	430	160	145
MF480-11/4-DAV+	575	110	G11/4	430	200	145
MF720-11/2-DAV+	735	150	G11/2	535	200	145
MF1080-2-DAV+	735	150	G2	535	280	145
MF1440-2-EAV+	865	160	G2	665	450	145

Order Instructions

Description	Port size	Order Instructions	
		Type	Order No.
Basic model with metal bowl, Econometer and automatic drain valve DV-1/2i	G1	MF360-1-DAV	PBZ 0049-000
	G11/4	MF480-11/4-DAV	PBZ 0149-000
	G11/2	MF720-11/2-DAV	PBZ 0249-000
	G2	MF1080-2-DAV	PBZ 0349-000
	G2	MF1440-2-EAV *)	PBZ 0449-002
Version with Economiser and electronically controlled drain valve DV-3/4e	G1	MF360-1-DAV+	PBZ 0049-001
	G11/4	MF480-11/4-DAV+	PBZ 0149-001
	G11/2	MF720-11/2-DAV+	PBZ 0249-001
	G2	MF1080-2-DAV+	PBZ 0349-001
	G2	MF1440-2-EAV+ *)	PBZ 0449-003

*) metal bowl with sight glass

Accessories

Description	Order No.
Mounting kit	on request
Programmer for parameter input for the Economisers (for types MF+)	on request
Mounting accessories	Commercially available double nipple

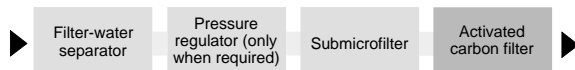
Characteristics		Pressures quoted as gauge pressure					
System		MC					
Type		Standard with metal bowl (with sight glass for MF1440)					
		MC360-1-D	MC480-11/4-D	MC720-11/2-D	MC1080-2-D	MF1440-2-E	
Weight (mass)	kg	2.5	2.5	7	7.2	10.9	
Installation		Vertical, bowl at the bottom					
Medium and ambient temperatures	ϑ_{\min}	°C 0					
	ϑ_{\max}	°C +40					
Port size *)		G1	G11/4	G11/2	G2	G2	
Housing material		Al					
Pneumatic Characteristic							
Operating pressure range	p_{\min}	bar	0				
	p_{\max}	bar	16				
Recommended flow at 7 bar	maximal Q	m ³ /h	360	480	720	1080	1440
	nominal Q		270	360	480	720	1080
Pressure drop at recommended flow	Δp	bar	0.2 new element				
Residual oil content		0.003 p.p.m in combination with MF					

*) NPTF on request



Installation Procedure

To increase the life span of the filter elements, we recommend the following order



For product group list see 5.81.001E

Data Sheet No. 5.81.007E-1

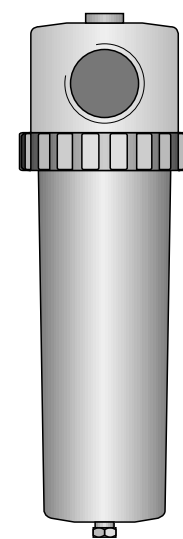
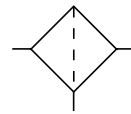
Activated Carbon Filter G1-G2

airfitmicro

– for series AIRFIT magnum

Series

MC...-..



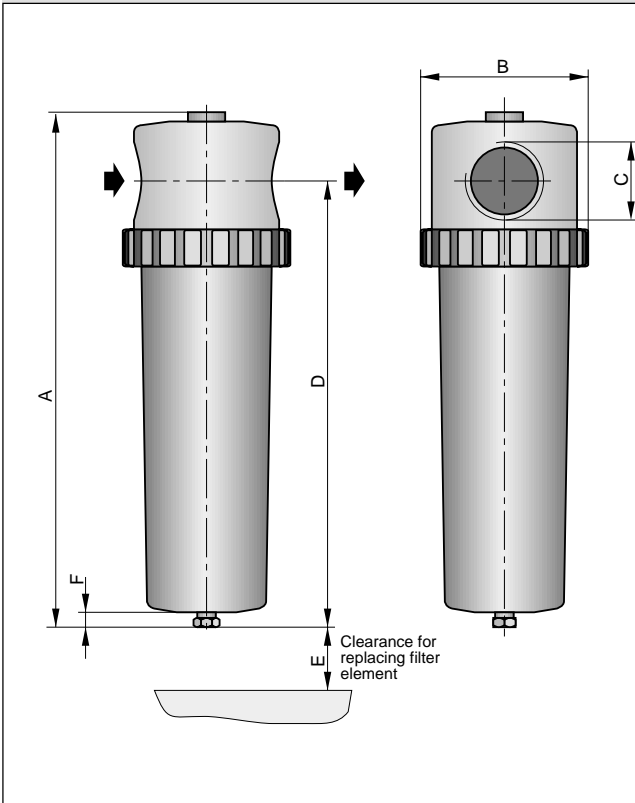
- Ultrafilter inside
- Airfit design
- 5 year warranty on material durability
- Version with NPTF thread

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ORIGA

A1P615E00KY0X

The right to introduce technical modifications is reserved

Dimensions



Dimension Table (mm)

Type	A	B	C	D	E	F
MC360-1-D	355	110	G1	290	160	5
MC480-11/4-D	355	110	G11/4	290	200	5
MC720-11/2-D	470	150	G11/2	395	200	5
MC1080-2-D	470	150	G2	395	280	5
MC1440-2-E	610	160	G2	535	450	15

Order Instructions

Description	Port size	Order Instructions	
		Type	Order No.
Basic model with metal bowl	G1	MC360-1-D	PBZ 1049-000
	G11/4	MC480-11/4-D	PBZ 1149-000
	G11/2	MC720-11/2-D	PBZ 1249-000
	G2	MC1080-2-D	PBZ 1349-000
	G2	MC1440-2-E *)	PBZ 1449-001

*) metal bowl with sight glass

Accessories

Description	Order No.
Mounting kit	on request
Mounting accessories	Commercially available double nipple

**PNEUMATIC
GROUP**

**REFRIGERATION, MEMBRANE
AND ADSORPTION DRYERS**

airfitdry



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Membrane Dryers

Description	Port Size	Nominal Flow at 7 bar and 35°C	Type	Data Sheet No.
Membrane dryers with return pipe – fitting the airfit swing Series	G1/4	2,5	SDM2-1/4-R	5.82.004
	G1/4	5	SDM5-1/4-R	
Membrane dryers ¹⁾ with return pipe – fitting the airfit comfort Series	G1/2	10	CDM10-1/2-R	5.82.005
	G1/2	15	CDM15-1/2-R	
	G1/2	20	CDM20-1/2-R	
	G1/2	25	CDM25-1/2-R	
	G1/2	35	CDM35-1/2-S	
	G1/2	50	CDM50-1/2-S	

¹⁾ Version with patented purge air regulation system on request

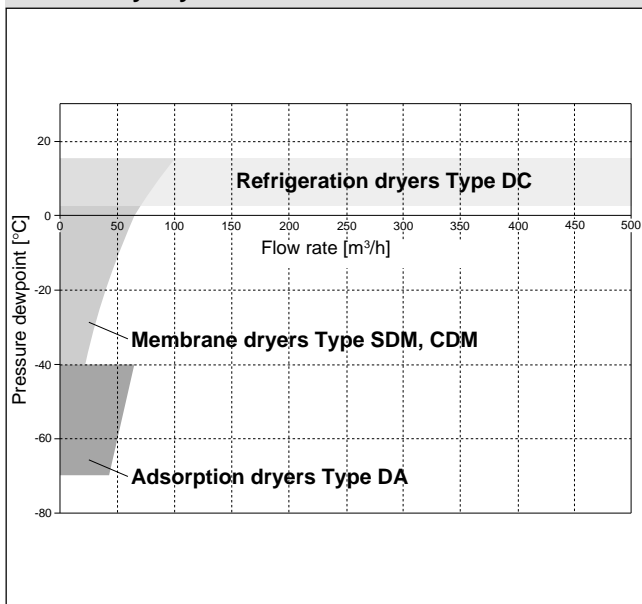
Adsorption Dryers

Description	Port Size	Nominal Flow at 7 bar and 35°C	Type	Data Sheet No.
Adsorption dryers with/without process control	G1/2	10	DA-10	5.82.002
	G1/2	25	DA-25	
	G1	35	DA-35	
	G1	65	DA-65	

Refrigeration Dryers

Description	Port Size	Nominal Flow at 7 bar and 35°C.	Type	Data Sheet No.
Refrigeration dryers	G3/8	10	DC-10	5.82.003
	G1/2	25	DC-25	
	G1/2	35	DC-35	
	G3/4	65	DC-65	
	G1	125	DC-125	
	G1 1/2	225	DC-225	
	G1 1/2	450	DC-450	
	G2	850	DC-850	

Application Ranges of the Various Types of airfit dryers to DIN/ISO 7183



Rough Guide to Choice of Membrane Dryers

Conversion factor for calculation of corrected flow rate

Operating pressure range p [bar]	5	6	7	8	9	10	11	12	13	14	15	16
Conversion factor f_p	0.57	0.78	1.0	1.21	1.42	1.64	1.85	2.06	2.28	2.49	2.70	2.92

Formula symbols

$Q_{corr.}$ = Corrected inlet flow rate

Q_{inlet} = Inlet flow rate

f_p = Conversion factor

Formula for calculation of corrected inlet flow rate

$$Q_{corr.} = \frac{Q_{inlet}}{f_p}$$

Example of calculation:

Flow rate: 60 m³/h

Pressure dewpoint reduction: 20 K

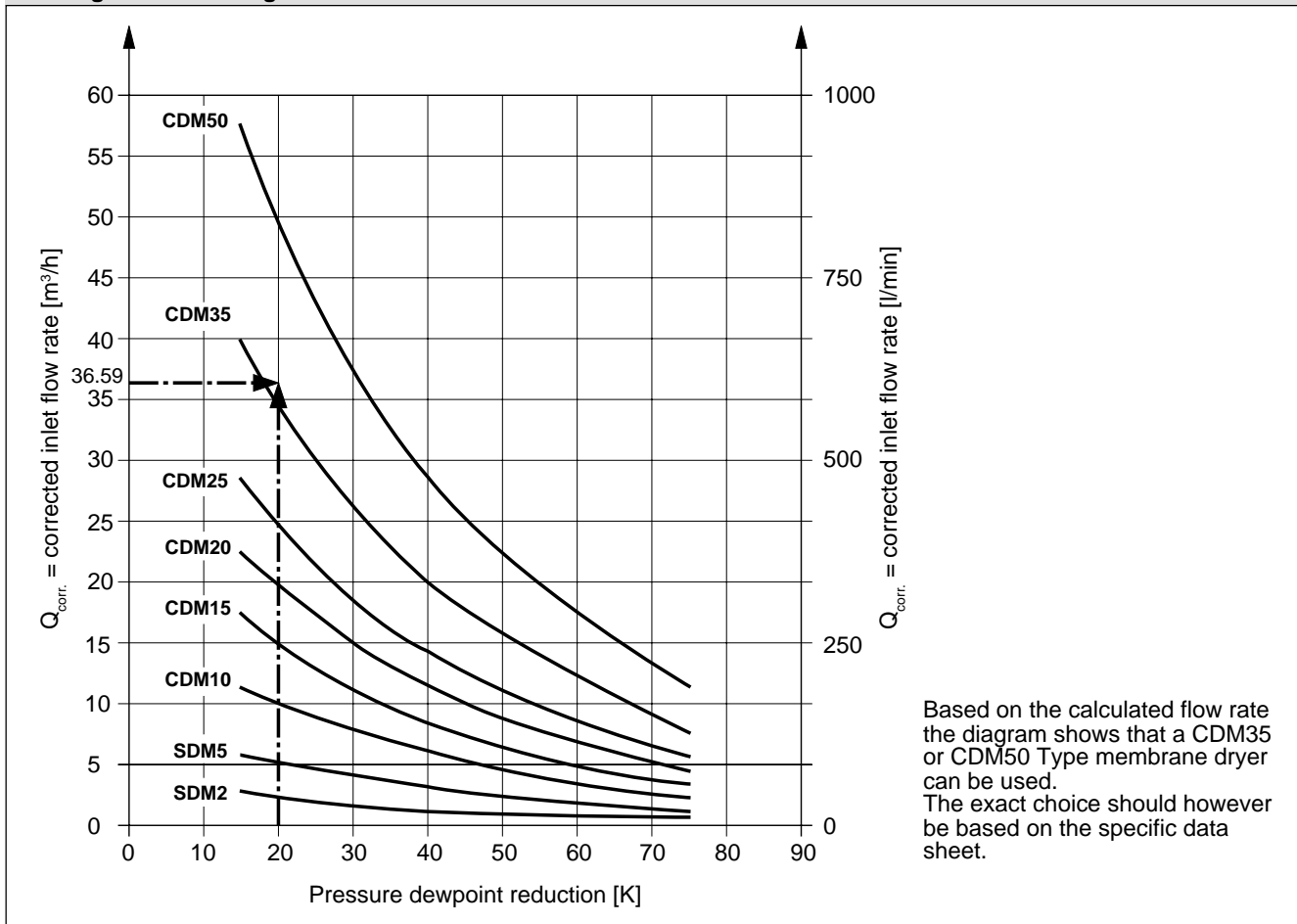
Operating pressure: 10 bar

$$Q_{corr.} = \frac{Q_{inlet}}{f_p} = \frac{60}{1.64} = 36.59 \text{ m}^3/\text{h}$$

The calculated values shown on the Selection

Diagram are a rough guide to the choice of membrane dryers. The exact choice should however be based on the specific data sheet.

Selection diagram for HOERBIGER-ORIGA membrane dryers – fitting the airfit swing and airfit comfort Series



Based on the calculated flow rate the diagram shows that a CDM35 or CDM50 Type membrane dryer can be used. The exact choice should however be based on the specific data sheet.

A3P159E00GY00X

The right to make technical modifications is reserved

A1P612E00KY00X

The right to introduce technical modifications is reserved

Characteristics		Pressures quoted as gauge pressure				
System			Adsorbent filled cartridges in series, with cyclic flow. Fully integrated functional unit with pre- and post filters, fully automatic cold regenerating for continuous operation.			
System			as above, but microprocessor controlled (cycles depend on system load), Economiser (for optimal replacement of the pre- and post filters) LCD-display and selfdiagnostic system.			
Type (complete designation on next page)			DA -10	DA -25	DA -35	DA -65
Port size			G1/2		G1	
Q at 7 bar and 35°C input temperature in		m ³ /h	10	25	35	65
Operating pressure range	p_{min} p_{max}	bar bar	4 16			
Residual oil content			0,03 mg/m ³ at 7 bar, 35°C and 3 mg/m ³ input concentration			
Pressure drop	Δp	bar	0,12-0,27 varying to type			
Pressure dew point		°C	-40 (to -70°C at 2/3 Q)			
Voltage			230 V/50-60 Hz (optional 110 V~, 24 V=)			
Weight		kg	9	26	40	60
Electrical protection		IP	65			
Medium temperatures	ϑ_{max}	°C	50			
Ambient temperatures	ϑ_{min} ϑ_{max}	°C °C	4 50			
Values are general selection values.						

Please consult us for optimal sizing of your unit.

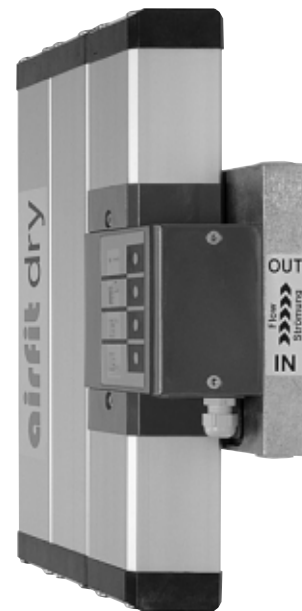
Adsorption Dryer

G1/2-G2

airfit dry

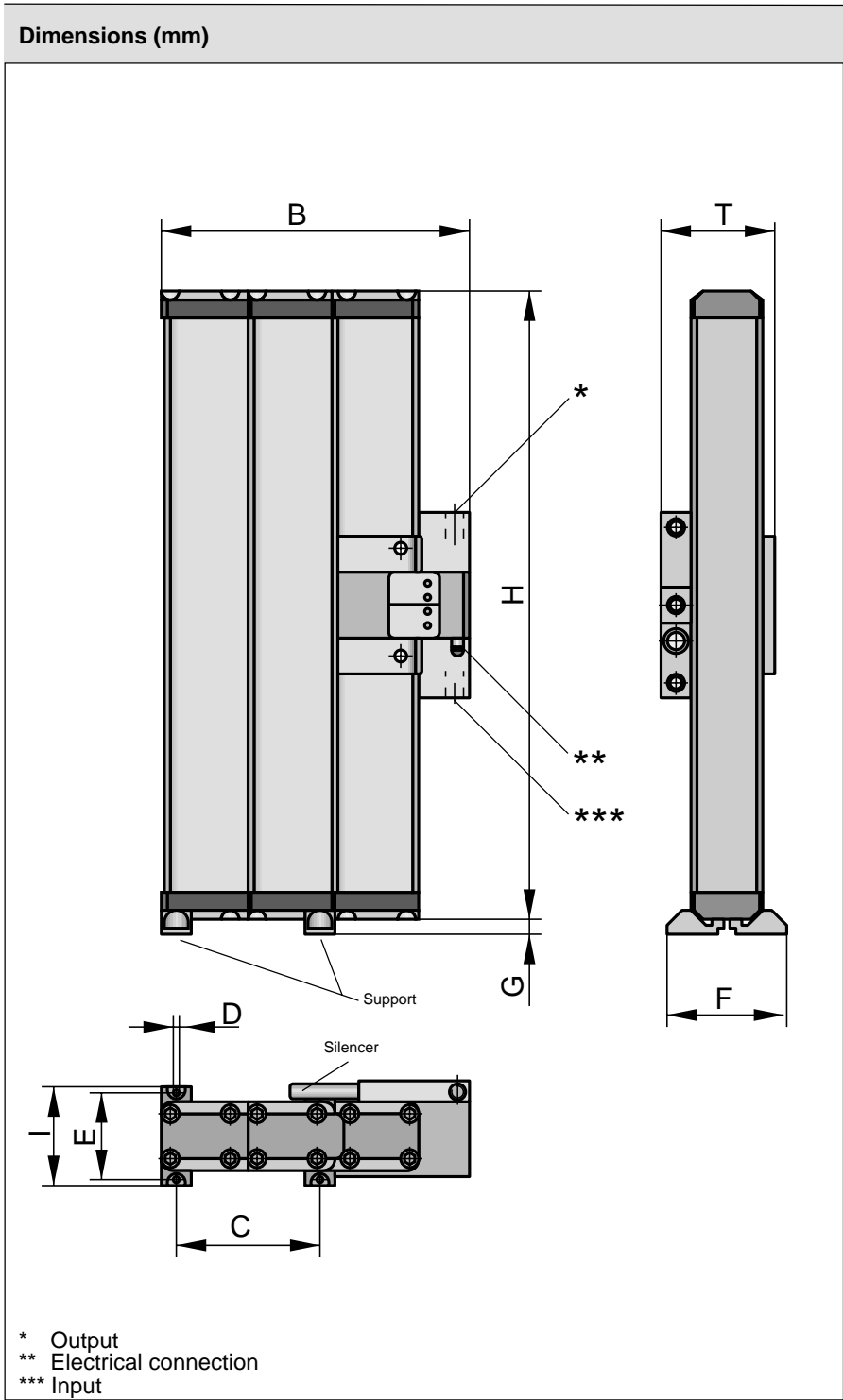
DA...

- Also suitable for nitrogen
- airfit design
- Version with NPTF thread
- Self monitoring and self diagnostic system (pc)
- Load dependent adsorption and regeneration times (pc)
- LED function indicator
- <50 dB(A) in operation



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Dimension Table (mm)					
Dim.	Type	DA-10	DA-25	DA-35	DA-65
B		300	300	531	531
C		136	136	245	245
D		12.5	12.5	12.5	12.5
E		92	92	156	156
F		115	115	195	195
G		15	15	35	35
H		580	1370	636	1140
I		112	112	191	191
T		97	97	160	160



Order Instructions			
Description	Port size	Type	Order No.
Basic model	G1/2	DA-10	PBZ 3049-000
		DA-25	PBZ 3649-000
	G1	DA-35	PBZ 3149-000
		DA-65	PBZ 3249-000
with Microprocessor controlled	G1/2	DA-10pc	PBZ 3049-001
		DA-25pc	PBZ 3649-001
	G1	DA-35pc	PBZ 3149-001
		DA-65pc	PBZ 3249-001

A1P613E00EAA00X

The right to introduce technical modifications is reserved

Characteristics		Pressures quoted as gauge pressure										
System			The refrigerant is evaporated in a special heat exchange system and cools the air. The formed condensate is drained by an electronically controlled drain valve.									
Type (complete designation on next page)			DC -10	DC -25	DC -35	DC -65	DC -125	DC -225	DC -450	DC -850		
Port size			G3/8	G1/2		G3/4	G1	G1 1/2		G2		
Q at 7 bar and 35°C in input temperature ¹⁾		m ³ /h	10	25	35	65	125	225	450	850		
Operating pressure range	p _{min}	bar	2									
	p _{max}	bar	16									
Allowable ambient temperature	ϑ _{min}	°C	2									
	ϑ _{max}	°C	50									
Electrical protection		IP	20									
Noise level		dB(A)	≤ 70									
Cooling air requirement		m ³ /h	770						1300	2100		
Power consumption *		kW	0.13	0.16	0.19	0.28	0.41	0.67	0.95	1.35		
Electrical connection			230 V/50 Hz									
Weight		kg	30	36	39	48	52	66	97	166		
Pressure drop	Δp	bar	0.1-0.3 varying to type									
Condensate drain		mm	For tubing ø DI 10									
Drucktaupunkt		°C	+3									
Refrigerant volume		kg	0.3-1.8 varying to type									
Allowable refrigerant pressure (low/high)		bar	16/30					16/20				

¹⁾ m³ at 1 bar absolute, 20°C (initial setting of the condenser) at an ambient temperature of +25°C, measured at the dryer output to DIN ISO 7183

* at 25°C ambient temperatures

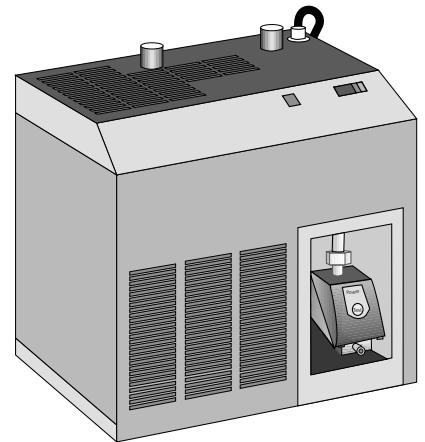
Freeze Dryer

G3/8-G2

airfit dry

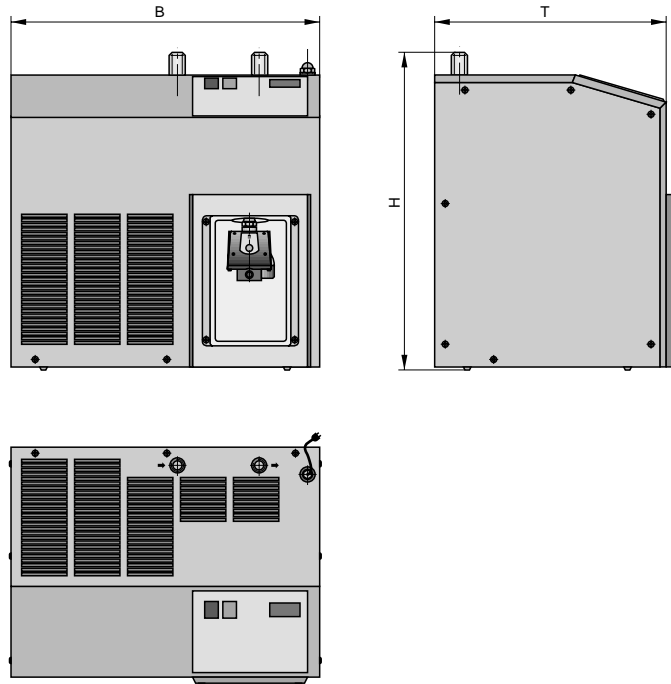
DC

- Airfit design
- Refrigerant R134a
- Up to 50% less energy due to air/air heat exchange system
- With electronic drain valve



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Dimensions



Dimension Table (mm)

Dimension	Type DC-10	DC-25	DC-35	DC-65	DC-125	DC-225	DC-450	DC-850
B	350	450	450	450	550	650	650	1200
H	350	450	450	450	600	600	600	900
T	375	400	400	400	450	600	600	800

Order Instructions

Description	Port size	Type	Order No.
Basic model	G3/8	DC-10	PBZ 4749-000
		DC-25	PBZ 4049-000
		DC-35	PBZ 4649-000
	G3/4	DC-65	PBZ 4149-000
		DC-125	PBZ 4249-000
	G1	DC-225	PBZ 4349-000
		DC-450	PBZ 4449-000
	G2	DC-850	PBZ 4549-000

Accessories

Description	Order No.
Bypass unit, completely assembled	on request
Mounting kit	on request

Membrane Dryers

G1/4

airfit dry

SDM-1/4

fitting the airfit swing Series

Versions:

- Version with return pipe (Type: SDM-1/4-R)

Characteristics		Pressures quoted as gauge pressure	
System		Drying by highly selective, water-permeable membrane (hollow fibres) based on partial pressure difference between inside and outside of membrane.	
Type		SDM2-1/4-R	SDM5-1/4-R
Port size		G 1/4	G 1/4
Installation		In any position	
Medium and ambient temperature range	ϑ_{\min} ϑ_{\max}	°C °C	+2 +60
Medium		Filtered air ³⁾	
Weight (mass)		kg	1.7 2.0
Pneumatic Characteristics			
Operating pressure range	p_{\min} p_{\max}	bar bar	5 16
Flow rate at compressed air inlet ¹⁾	Q_{inlet}	l/min m ³ /h	42 2.5 83 5
Max. flow rate at compressed air inlet ²⁾	Q_{inlet}	l/min m ³ /h	140 8.4 280 16.8
Pressure dewpoint reduction ¹⁾		K	20
Purge air consumption		%	ca. 10
Pressure drop	Δp	bar	0.01 – 0.04

For optimum product selection please contact our sales engineer.

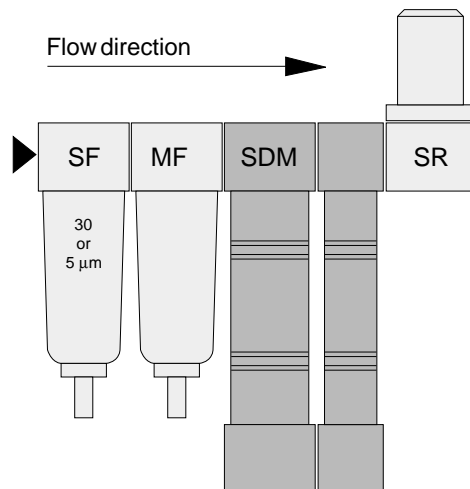
¹⁾ Inlet conditions according to DIN ISO 7183: $p_1 = 7 \text{ bar}$, $T_1 = 35^\circ\text{C}$, $\text{PDP}_1 = 35^\circ\text{C}$.

²⁾ See also the flow rate diagrams on the next page.

³⁾ According to ISO 8573-1, quality classes 1-1, see assembly instruction below.

Assembly Instruction

Recommended assembly order



- airfit design
- Compact
- Variant with NPTF thread
- Immediate dry air delivery
- No electric power supply required
- Low purge air consumption
- Low pressure drop
- No change in air composition

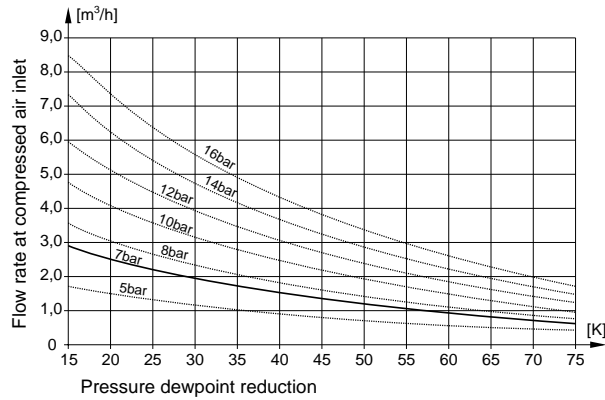
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The right to make technical modifications is reserved

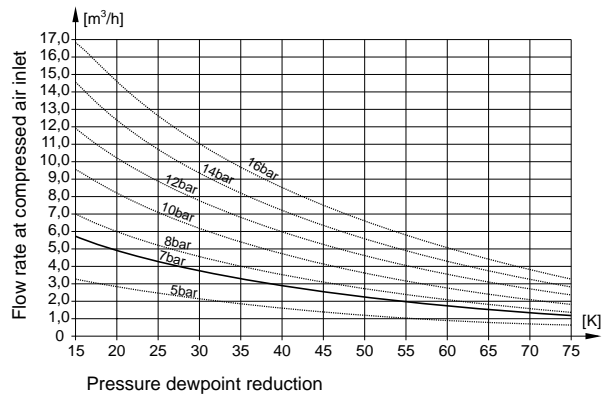
Flow rate in relation to pressure dewpoint reduction and inlet pressure

Type SDM2-1/4-R



Flow rate in relation to pressure dewpoint reduction and inlet pressure

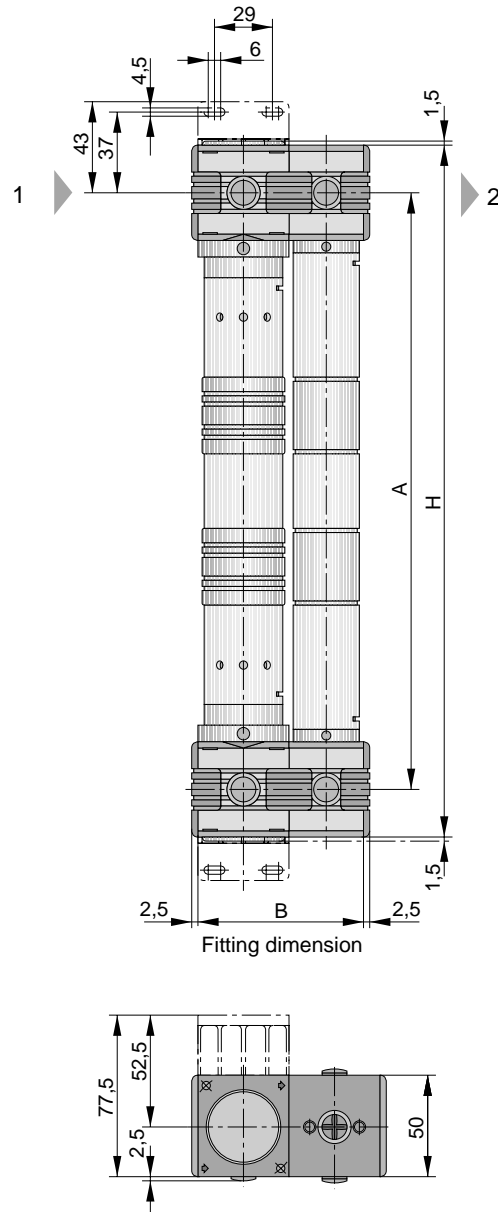
Type SDM5-1/4-R



Dimension Table (mm)

Type	A	B	H
SDM2-1/4-R	280	80	325
SDM5-1/4-R	450	80	495

Dimensions (mm)



1 = P-inlet
2 = P-outlet (on version with return pipe)

Order Instructions

Description	Port Size	Type	Order No.
Membrane dryer with return pipe	G1/4	SDM2-1/4-R	PB 44149-030
	G1/4	SDM5-1/4-R	PB 44149-020

Accessories

Description	Order No.
Mounting kit (2 kits per mounting recommended)	PL 16965
Coupling kit	PL 16959

Characteristics		Pressures quoted as gauge pressure						
System			Drying by highly selective, water-permeable membrane (hollow fibres) based on partial pressure difference between inside and outside of membrane.					
Type			CDM 10-1/2-R	CDM 15-1/2-R	CDM 20-1/2-R	CDM 25-1/2-R	CDM 35-1/2-S	CDM 50-1/2-S
Port size			G 1/2					
Installation			In any position					
Medium and ambient temperature range	ϑ_{\min} ϑ_{\max}	°C °C	+2 +60					
Medium			Filtered air ³⁾					
Weight (mass)		kg	3.3				4.2	
Pneumatic Characteristics								
Operating pressure range	p_{\min} p_{\max}	bar bar	5 16					
Flow rate at compressed air inlet ¹⁾	Q_{inlet}	l/min m ³ /h	166 10	250 15	333 20	416 25	583 35	833 50
Max. flow rate at compressed air inlet ²⁾	Q_{inlet}	l/min m ³ /h	560 33.6	840 50.4	1120 67.2	1400 84.0	1960 117.5	2800 168
Pressure dewpoint reduction ¹⁾		K	20					
Purge air consumption		%	ca. 10					
Pressure drop	Δp	bar	0.02 - 0.05				0.06	0.12

For optimum product selection please contact our sales engineer.

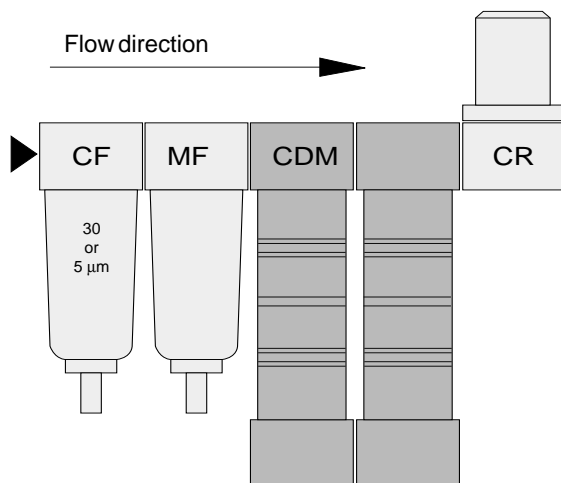
¹⁾ Inlet conditions according to DIN ISO 7183: $p_1 = 7 \text{ bar}$, $T_1 = 35^\circ\text{C}$, $\text{PDP}_1 = 35^\circ\text{C}$.

²⁾ See also the flow rate diagrams on the next page.

³⁾ According to ISO 8573-1, quality classes 1-1, see assembly instruction below.

Assembly Instruction

Recommended assembly order



Membrane Dryers

G1/2

airfit dry

CDM-1/2

fitting the airfit comfort series

Versions:

- Version with return pipe (Type: CDM-1/2-R)
- Version with purge air regulation system (patented) on request

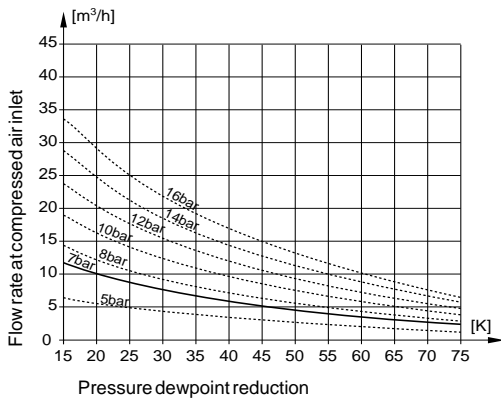


- airfit design
- Compact
- Variant with NPTF thread
- Immediate dry air delivery
- No electric power supply required
- Low purge air consumption
- Low pressure drop
- No change in air composition

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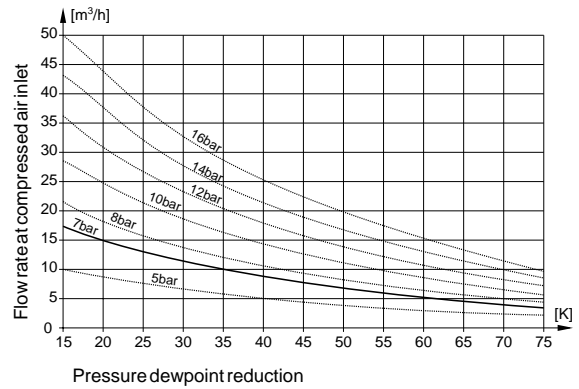
Flow rate in relation to pressure dewpoint reduction and inlet pressure

Type CDM10-1/2-R



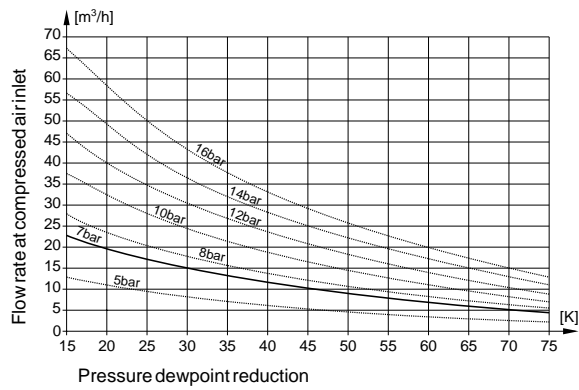
Flow rate in relation to pressure dewpoint reduction and inlet pressure

Type CDM15-1/2-R



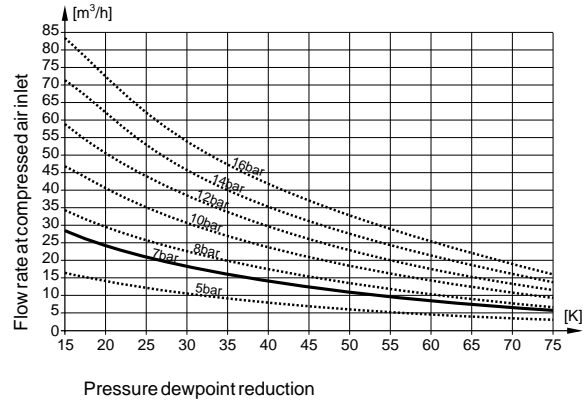
Flow rate in relation to pressure dewpoint reduction and inlet pressure

Type CDM20-1/2-R



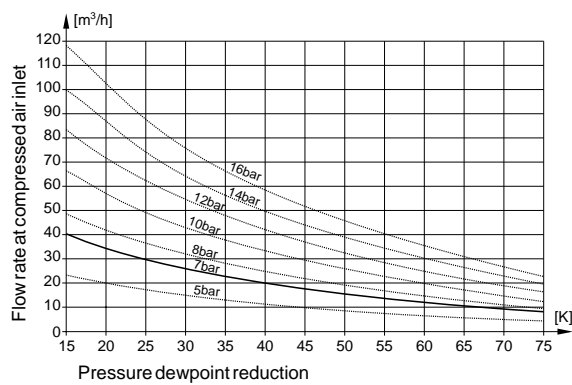
Flow rate in relation to pressure dewpoint reduction and inlet pressure

Type CDM25-1/2-R



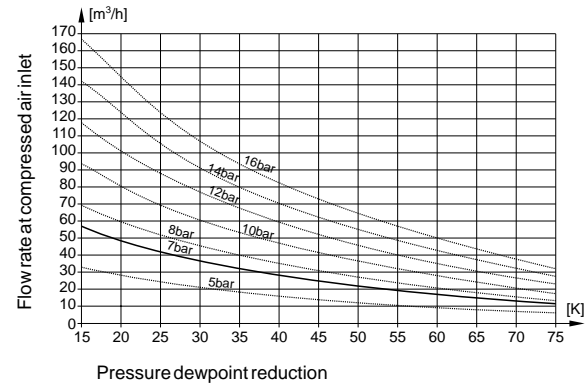
Flow rate in relation to pressure dewpoint reduction and inlet pressure

Type CDM35-1/2-S

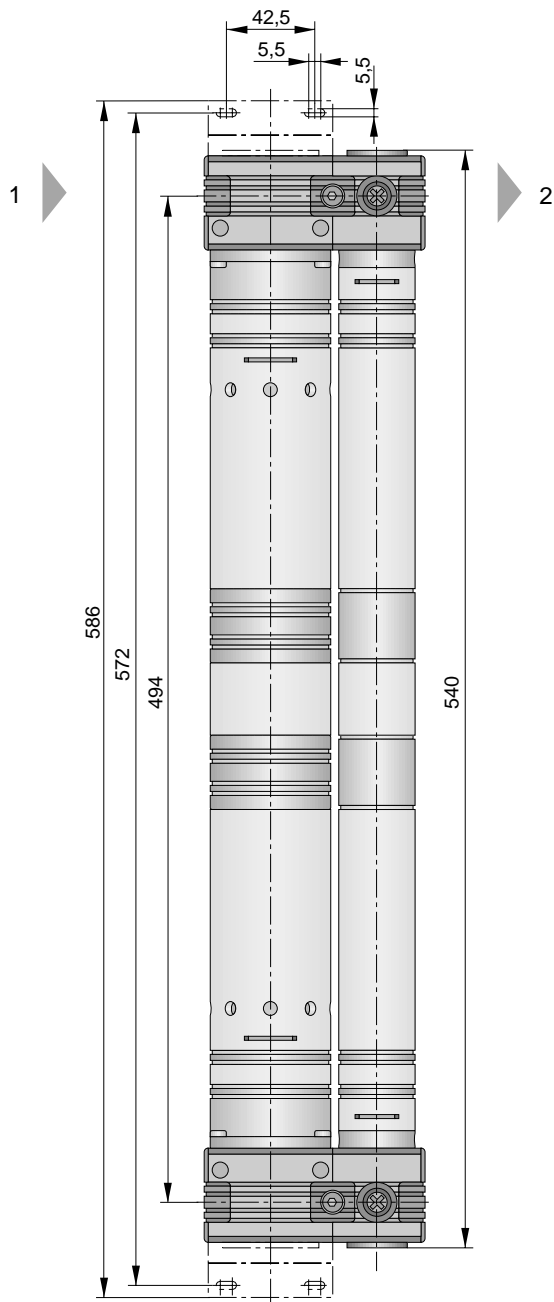


Flow rate in relation to pressure dewpoint reduction and inlet pressure

Type CDM50-1/2-S

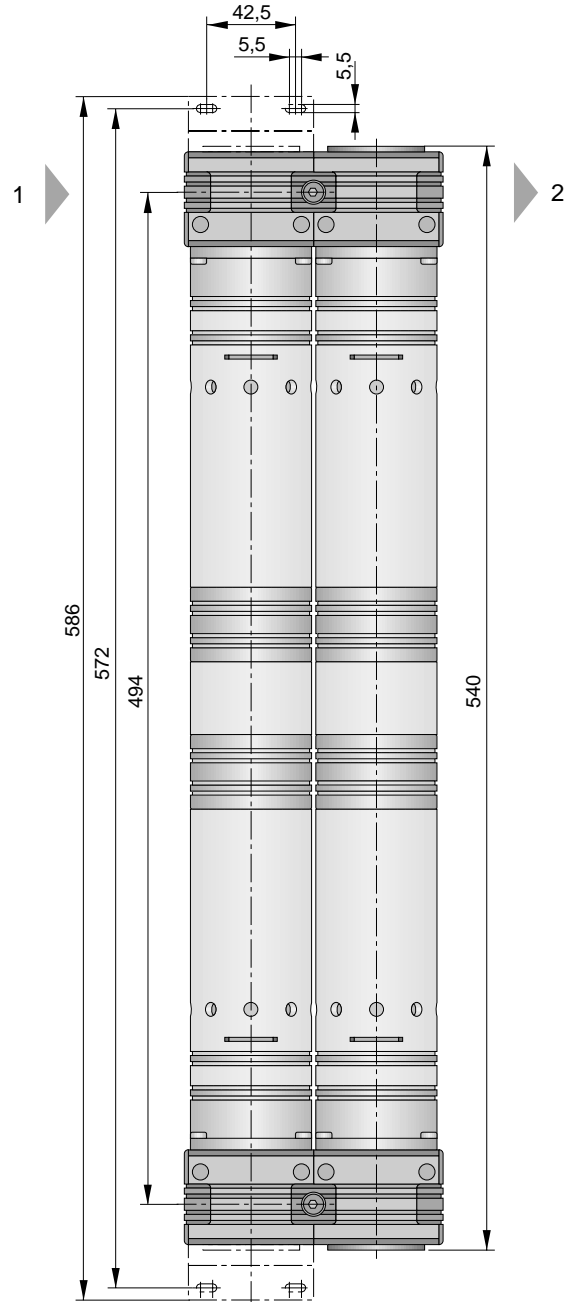


Dimensions (mm)
Type CDM 10/15/20/25-R



1 = P-inlet
 2 = P-outlet (on version with return pipe)

Dimensions (mm)
Type CDM 35/50-S



1 = P-inlet
 2 = P-outlet

Order Instructions *)			
Description	Port Size	Type	Order No.
Membrane dryer with return pipe	G1/2	CDM35-1/2-S	PB 54349-030
	G1/2	CDM50-1/2-S	PB 54349-033
	G1/2	CDM10-1/2-R	PB 54349-020
	G1/2	CDM15-1/2-R	PB 54349-021
	G1/2	CDM20-1/2-R	PB 54349-022
	G1/2	CDM25-1/2-R	PB 54349-023

*) Version with patented purge air regulation system on request

Accessories	
Description	Order No.
Mounting kit (2 kits per mounting recommended)	PL 17518
Coupling kit	PL 17608

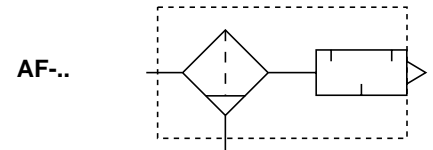
Characteristics		Pressures quoted as gauge pressure							
System		3-stage coalescence filter							
Type		AF-08	AF-10	AF-15	AF-20	AF-25	AF-32	AF-50	
Port size		G1/4	G3/8	G1/2	G3/4	G1	G1 1/4	G2	
Installation		Vertical, bowl at the bottom							
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C	+1.5						
		°C	+60						
Condensate drainage			Manual						
Weight (mass)		kg	0.3	0.3	0.6	0.6	1.1	1.1	1.17
Pneumatic Characteristic									
Operating pressure range	p_{\min} p_{\max}	bar bar	0 10						
Pressure drop	Δp	bar	See diagram						
Degree of filtration	η	%	99.999 D.O.P. solid particles and vapours (oil, water) >0.1 micron						
Residual oil content		mg/m ³	0.01						
Silencing compared with open exhaust		dB	20	20	20	25	35	35	35
Exhaust capacity		l/s	See diagram						

Exhaust Filter Silencer

G1/4-G2

Residual oil: 0.01 mg/m³

airfitmicro



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Accessories

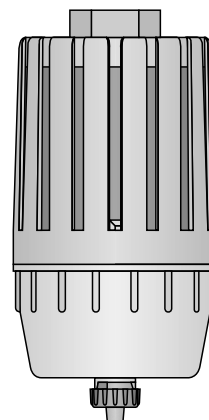
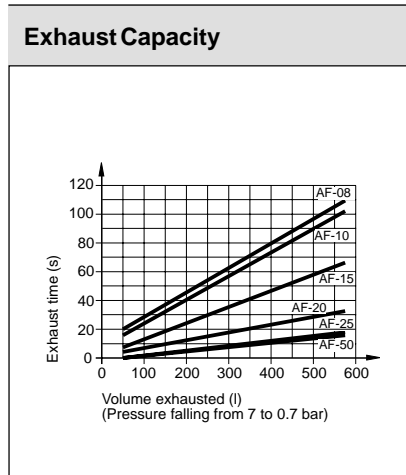
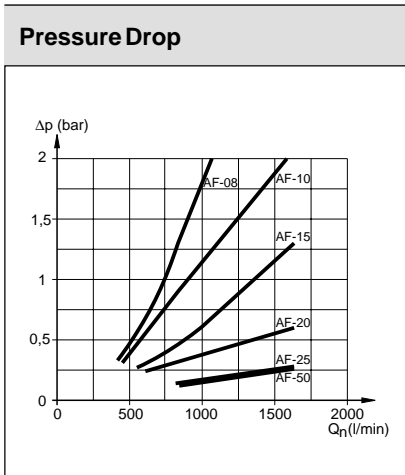
Mounting kit

Order No.:
KX9132 (G1/2, G3/4)
KX9133 (G1, G2)

Exhaust filter-silencers clean the exhaust air of pneumatic equipment and reduce the exhaust noise created by sudden expansion.

- Very high oil filtration
- High exhaust capacity
- Low pressure drop
- Very good silencing

The right to introduce technical modifications is reserved

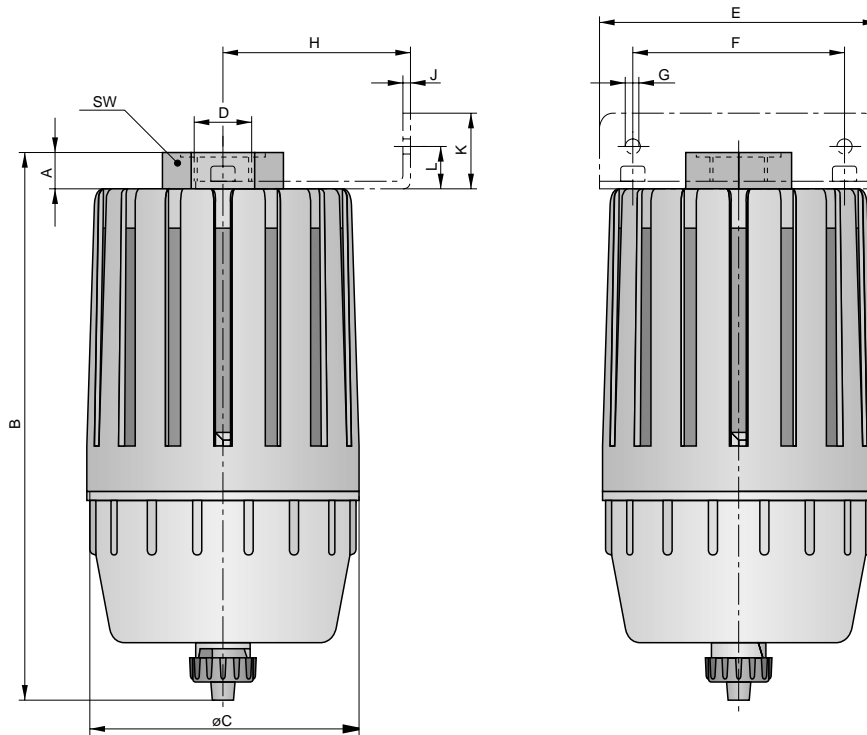


For product group list see 5.80.001E

Data Sheet No. 5.89.002E-1

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Dimensions (mm)



Dimension Table (mm)

Type	A	B	C	D	E	F	G	H	J	K	L	SW
AF-08	6	130	77	G1/4	64	45	5.8	50	2.5	11	3	26
AF-10	6	130	77	G3/8	64	45	5.8	50	2.5	11	3	26
AF-15	12	180	90	G1/2	81	56.5	5.5	52	1.5	25	13	41
AF-20	12	180	90	G3/4	81	56.5	5.5	52	1.5	25	13	41
AF-25	15	254	110	G1	93	70	5.5	62	1.5	25	13	50
AF-32	30	270	110	G1 1/4	93	70	5.5	62	1.5	25	13	55
AF-50	73	311	110	G2	93	70	5.5	62	1.5	25	13	55

Order Instructions

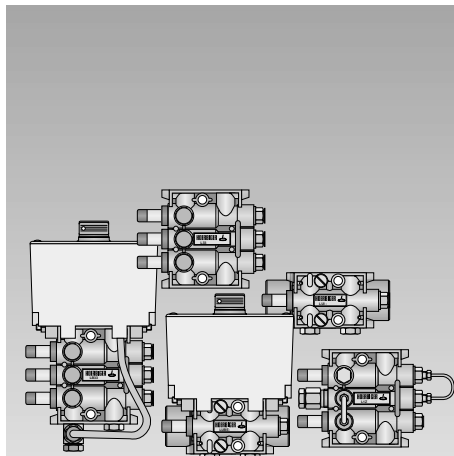
Description	Port size	Type	Order No.
Exhaust filter-silencer	G1/4	AF-08	PB 35149-000
	G3/8	AF-10	PB 35249-000
	G1/2	AF-15	PB 35349-000
	G3/4	AF-20	PB 35449-000
	G1	AF-25	PB 35549-000
	G1 1/4	AF-32	PB 36949-000
	G2	AF-50	PB 35049-000

Accessories

Mounting kit (bracket and screws)		AF-08/10	Integral component
		AF-15/20	KX9132
		AF-25/32/50	KY9133

**PNEUMATIC
GROUP**

INJECTION LUBRICATOR
SYSTEMS
SERIES
oilfit



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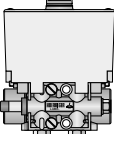
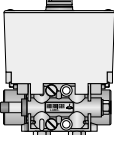
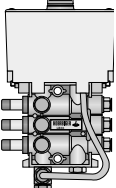


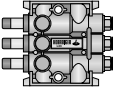
		Port size	Recommended flow (l/min)*	Type	Data Sheet No.	
Injection lubricador combination units		G1/4	550	LUBI-08	5.90.002E	
		G3/8	850	LUBI-10		
		G1/2	1900	LUBI-15		
		G3/4	3500	LUBI-20		
		G1	5000	LUBI-25		
		G1/4	550	LUBE-08	5.90.003E	
		G3/8	850	LUBE-10		
		G1/2	1900	LUBE-15		
		G3/4	3500	LUBE-20		
		G1	5000	LUBE-25		
		G1/8*	-	LB11	5.90.004E	
		G1/8*	-	LB31		
		G1/8*	-	LB33		
		G1/4	550	LUI-08	5.90.008E	
		G3/8	850	LUI-10		
		G1/2	1900	LUI-15		
		G3/4	3500	LUI-20		
		G1	5000	LUI-25		
	Single units		G1/8*	-	L10i	5.90.005E
			G1/8*	-	L10e	
		G1/8*	-	L11	5.90.006E	
		G1/8*	-	L31		
		G1/8*	-	L33		

Table of Contents see 5.00.001E

*Control signal inlet.

Oil recommendation: see 5.61.050E

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The right to introduce technical modifications is reserved

Characteristics		Pressures quoted as gauge pressure					
System			Single point injection lubricator. Automatic oilfeed when connected pneumatic tool is switched on.				
Mounting			In-line mounting: 2 screws M6 are included in delivery				
Tube connection			Thread				
Port size			G1/4	G3/8	G1/2	G3/4	G1
Port size lubricant			Coupling for tube \varnothing 2.5/1.5 coaxially in airline				
Weight (mass)		kg	0.65	0.65	0.65	0.75	0.80
Installation			Horizontal, reservoir on top				
Control medium			Filtered compressed air				
Lubricant			Mineral oil to DIN51524 and DIN 51525				
Viscosity		mm ² /s	20-765				
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	-20 +50				
Material	Reservoir		Polyester resin (PETP)				
	Sensor housing		Diecast aluminium				
	Sensor flap		Acetal resin (POM)				
Operating pressure range control fluid	p_{\min} p_{\max}	bar bar	3 16				
Operating pressure range lubricant			Inlet: without pressure from fitted reservoir (gravity feed)				
			Outlet: 0-250 bar depending on operating pressure and oil injection conditions				
Recommended flow ¹⁾	Q_n	l/min m ³ /h	550 33	850 51	1900 114	3500 210	5000 300
Own air usage ²⁾	Q_n	m ³ /h	0.36				
Minimum flow at 6 bar	Q_{\min}	m ³ /h	9				
Reservoir capacity		cm ³	250				
Oil feed per stroke		mm ³	3-30 adjustable factory adjustment 30 mm ³ /stroke				
Optional extension kits			Up to max. 10 lubrication points by fitting of elements L11, L31 or L33				

¹⁾ at 6 bar and 25 m/s

²⁾ at 6 bar and \varnothing 0.3 mm and $Q_n > Q_{\min}$ (i.e. only when there is flow)

Injection Lubricator Combination G1/4-G1

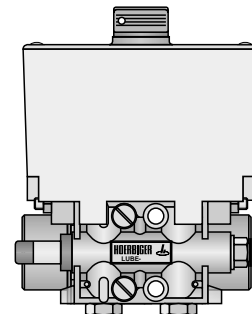
oilfit

LUBI-..

Comprising:
Oil reservoir
Air flow sensor
One-point injection lubricator

With combination units type LUBI-.., the pressure oil connection is inside the air outlet port of the air flow sensor.

For lubrication of individual hand operated pneumatic tools.

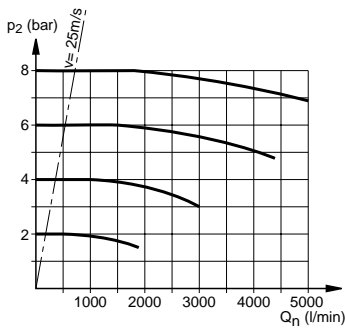


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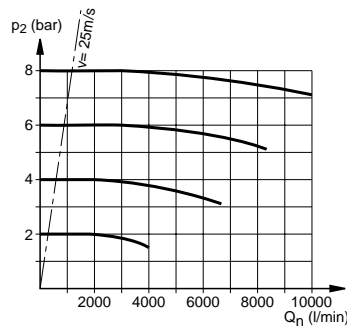
For product group list see 5.90.001E
For further lubricators see 5.90.002E-5.90.008E
For accessories see 5.91.002E-5.91.008E

Data Sheet No. 5.90.002E-1

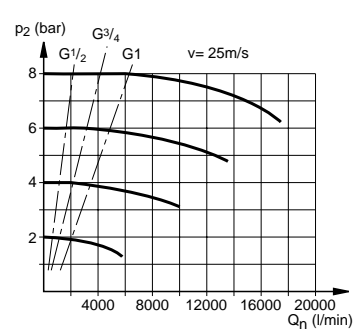
Flow Characteristics
Type: LUBI-08



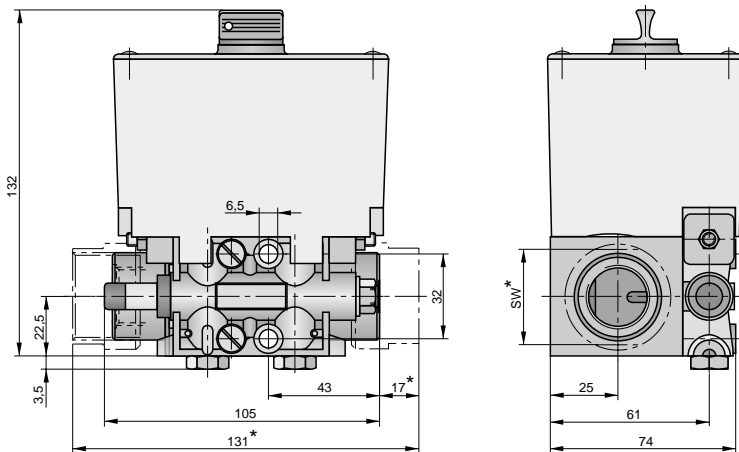
Flow Characteristics
Type: LUBI-10



Flow Characteristics
Type: LUBI-15, 20, 25

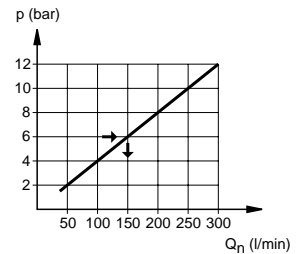


Dimensions (mm)

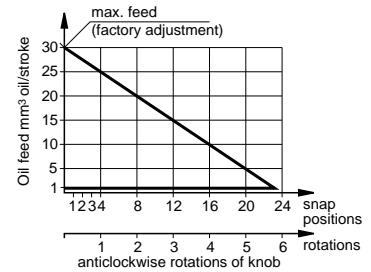


* only for LUBI-20 SW=36
LUBI-25 SW=41

Minimum Flow



Adjustment of Oil Feed



Order Instructions

Description	Port size	Type	Order No.
Injection lubricator combination	G1/4	LUBI-08	PB 13449-005
Injection lubricator combination	G3/8	LUBI-10	PB 13549-005
Injection lubricator combination	G1/2	LUBI-15	PB 13649-005
Injection lubricator combination	G3/4	LUBI-20	PB 13749-005
Injection lubricator combination	G1	LUBI-25	PB13849-005

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The right to introduce technical modifications is reserved

Characteristics		Pressures quoted as gauge pressure					
System			Single point injection lubricator. Automatic oilfeed when connected pneumatic tool is switched on.				
Mounting			In-line mounting: 2 screws M6 are included in delivery				
Tube connection			Thread				
Port size			G1/4	G3/8	G1/2	G3/4	G1
Port size lubricant			M6 x 0.75				
Weight (mass)		kg	0.65	0.65	0.65	0.75	0.80
Installation			Horizontal, reservoir on top				
Control medium			Filtered compressed air				
Lubricant			Mineral oil to DIN51524 and DIN 51525				
Viscosity		mm ² /s	20-765				
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	-20 +50				
Material	Reservoir		Polyester resin (PETP)				
	Sensor housing		Diecast aluminium				
	Sensor flap		Acetal resin (POM)				
Operating pressure range control fluid	p_{\min}	bar	3				
	p_{\max}	bar	16				
Operating pressure range lubricant			Inlet: without pressure form fitted reservoir (gravity feed)				
			Outlet: 0-250 bar depending on operating pressure and oil injection conditions				
Recommended flow ¹⁾	Q_n	l/min m ³ /h	550 33	850 51	1900 114	3500 210	5000 300
Own air usage ²⁾	Q_n	m ³ /h	0.36				
Minimum flow at 6 bar	Q_{\min}	m ³ /h	9				
Reservoir capacity		cm ³	250				
Oil feed per stroke		mm ³	3-30 adjustable factory adjustment 30 mm ³ /stroke				
Optional extension kits			Up to max. 10 lubrication points by fitting of elements L11, L31 or L33				

¹⁾ at 6 bar and 25 m/s²⁾ at 6 bar and \varnothing 0.3 mm and $Q_n > Q_{\min}$ (i.e. only when there is flow)

Injection Lubricator Combination G1/4-G1

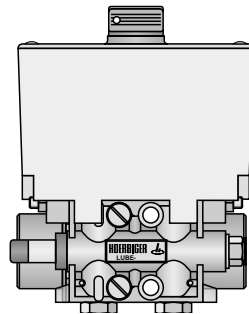
oilfit

LUBE..

Comprising:
Oil reservoir
Air flow sensor
One-point injection lubricator

With combination units type LUBE..,
the pressure oil connection is
outside of the flow sensor, directly
on the outlet of lubricator element.

For lubrication of individual hand
operated pneumatic tools.

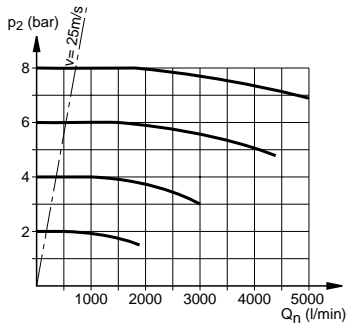


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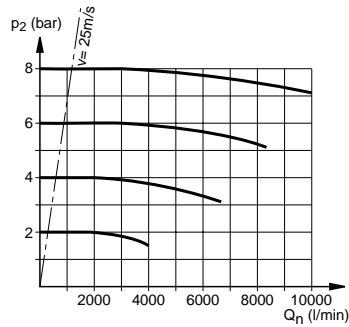
For product group list see 5.90.001E
For further lubricators see 5.90.002E-5.90.008E
For accessories see 5.91.002E-5.91.008E

Data Sheet No. 5.90.003E-1

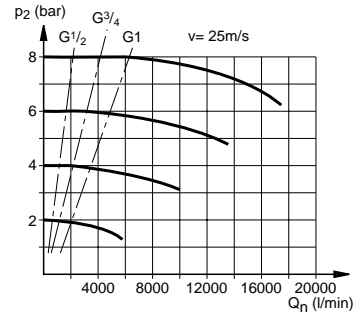
Flow Characteristics
Type: LUBE-08



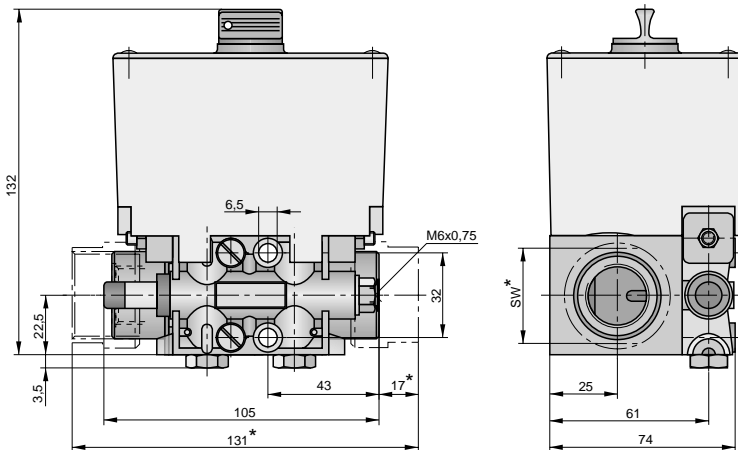
Flow Characteristics
Type: LUBE-10



Flow Characteristics
Type: LUBE-15, 20, 25

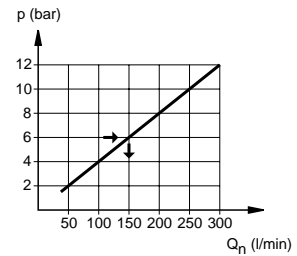


Dimensions (mm)

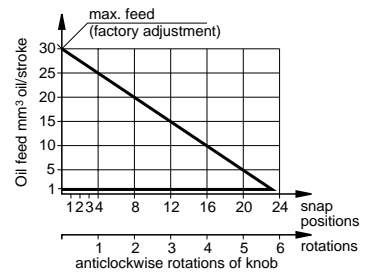


* only for LUBE-20 SW=36
LUBE-25 SW=41

Minimum Flow



Adjustment of Oil Feed



Order Instructions

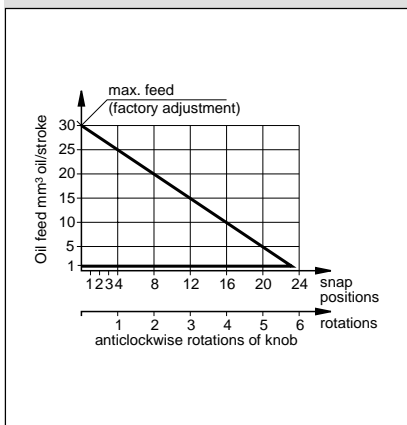
Description	Port size	Type	Order No.
Injection lubricator combination	G1/4	LUBE-08	PB 13449-007
Injection lubricator combination	G3/8	LUBE-10	PB 13549-007
Injection lubricator combination	G1/2	LUBE-15	PB 13649-007
Injection lubricator combination	G3/4	LUBE-20	PB 13749-007
Injection lubricator combination	G1	LUBE-25	PB13849-007

A1P151E00KY00X

The right to introduce technical modifications is reserved

Characteristics		Pressures quoted as gauge pressure	
System	LB11		One-point lubricator with 1 control air inlet
	LB31		Three-point injection lubricator with 1 combined control air inlet (combined actuation)
	LB33		Three-point injection lubricator with 3 separate control air inlets (individual actuation)
			Oil feed actuated by external pneumatic signal
Mounting			2 screws M6 (are included in delivery)
Installation			Horizontal, reservoir on top
Port size			G 1/8 control signal inlet M6x0.75 lubricant outlet
Weight (mass)		kg	LB11: 0.45; LB31, LB33: 0.65
Control medium			Filtered compressed air
Lubricant			Mineral oil to DIN51524 and DIN 51525
Viscosity		mm ² /s	20-765
Medium and ambient temperatures		ϑ_{\min} ϑ_{\max}	°C °C -20 +50
Material	Reservoir		Polyester resin (PETP)
	Element housing		Diecast zinc
Operating pressure range control fluid		p_{\min} p_{\max}	bar bar 3 16
Operating pressure range lubricant			Inlet: without pressure form fitted reservoir (gravity feed) Outlet: 0-250 bar depending on operating pressure and oil injection conditions
Reservoir capacity		cm ³	250
Oil feed per stroke		mm ³	3-30 adjustable factory adjustment 30 mm ³ /stroke
Optional extension kits			Up to max. 10 lubrication points by fitting of elements L11, L31 or L33

Adjustment of Oil Feed



For product group list see 5.90.001E
 For data sheets see 5.90.002E-5.90.008E
 For accessories see 5.91.002E-5.91.008E

Data Sheet No. 5.90.004E-1

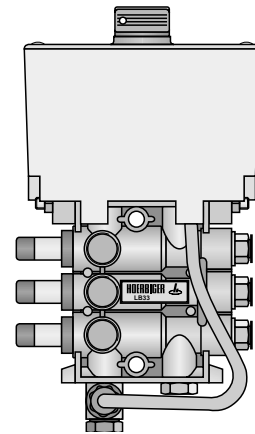
Injection Lubricator Combination

oilfit

LB11
 LB31
 LB33

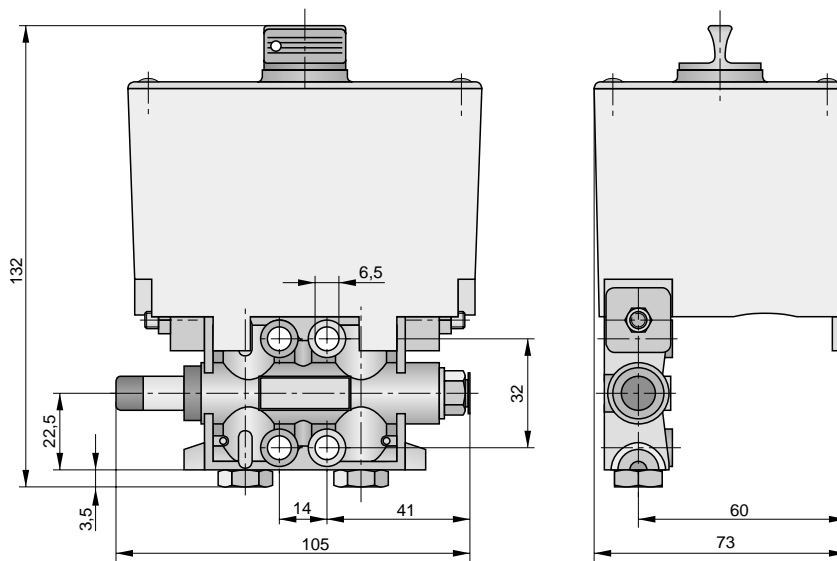
Comprising:
 Oil reservoir
 Lubricator element

These combinations are used for lubricating pneumatic cylinders, cycle-operating pneumatic feeding devices and pneumatic tools.

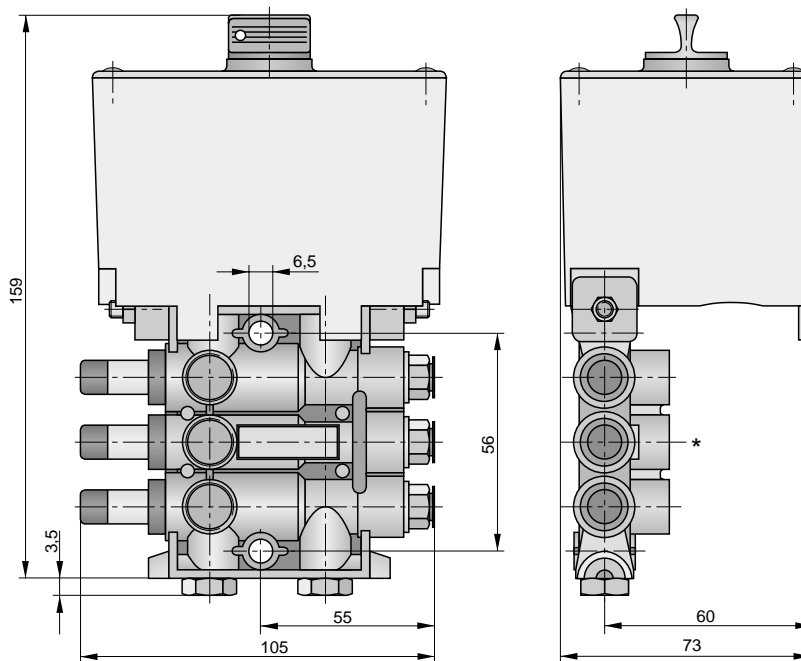


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ORIGA

Dimensions (mm)
Type: LB11



Dimensions (mm)
Type: LB31, LB33



* 3 lateral connections G1/8 only with type LB33

Order Instructions

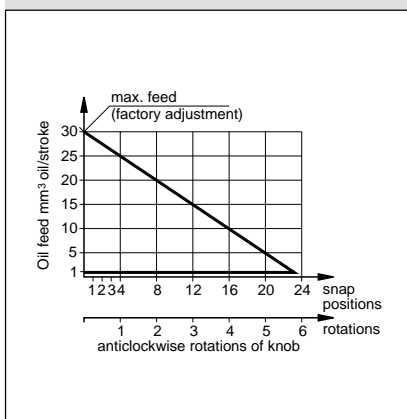
Description	Type	Order No.
One-point injection lubricator combination with air connection on the bottom side	LB11	PB 13049-000
Three-point injection lubricator combination with air connection on the bottom side (air signal actuates all 3 pressure oil outlets simultaneously)	LB31	PB 13149-000
Three-point injection lubricator combination with 3 lateral air connections (each air signal actuates only its corresponding pressure oil outlet)	LB33	PB 13249-000

A1P152E00KY00X

The right to introduce technical modifications is reserved

Characteristics		Pressures quoted as gauge pressure	
System			Single acting air hydraulic pump
Mounting			2 screws M6, with coupling kit either directly on oil reservoir or on other lubricator elements
Tube connection			Thread
Port size control air			G1/8
Port size lubricant			Inlet: G 1/8 Outlet: M6 x 0.75 (L10e)
Weight (mass)		kg	0.25
Installation			Horizontal (oil channel S→S) see drawing
Control medium			Filtered compressed air
Lubricant			Mineral oil to DIN51524 and DIN 51525
Viscosity		mm ² /s	20-765
Medium and ambient temperatures	ϑ_{\min}	°C	-20
	ϑ_{\max}	°C	+80
Material	Housing		Diecast zinc
	Seals		Buna N
	Actuating plunger		Polyamid transparent
	Oil connection		Brass
Operating pressure range of air	p_{\min}	bar	3
	p_{\max}	bar	16
Operating pressure range of lubricant			Inlet: gravity feed or pressure feed (max. 3 bar)
			Outlet: 0-250 bar depending on operating pressure and oil injection conditions
Oil feed per stroke		mm ³	3-30 adjustable factory adjustment 30 mm ³ /stroke

Adjustment of Oil Feed



For product group list see 5.90.001E
 For further lubricators see 5.90.002E-5.90.008E
 For accessories see 5.91.002E-5.91.008E

Data Sheet No. 5.90.005E-1

Injection Lubricator Combination

oilfit

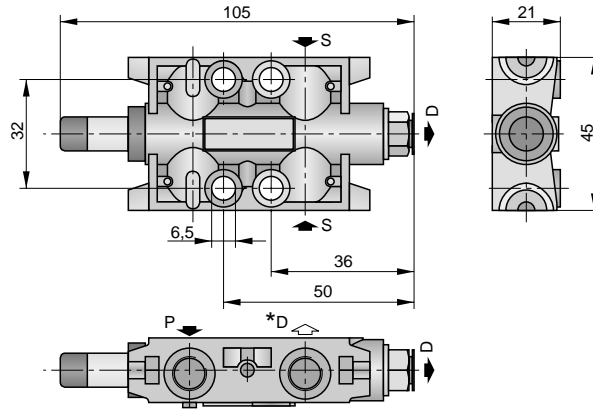
L10i
L10e

The lubricator elements have an unthreaded lateral air connection and can only be used for flanging to the air flow sensor.



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ORIGA

Dimensions (mm)



* only type L10e

Order Instructions

Description	Type	Order No.
Injection lubricator element with internal pressure oil outlet into the flow sensor	L10i	KY 2030
Injection lubricator element with external pressure (M6 x 0.75)	L10e	KY 2031

Accessories

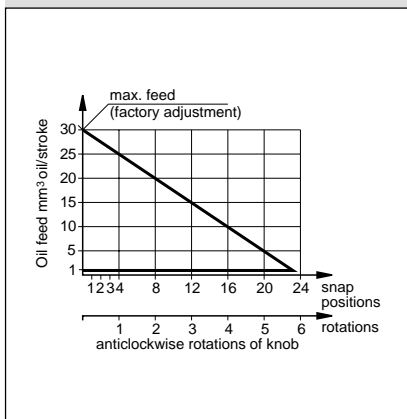
Description	Type	Order No.
Coupling kit (in 9 parts)	K	PL 08066

A1P153E00KY00X

The right to introduce technical modifications is reserved

Characteristics		Pressures quoted as gauge pressure	
System			Single acting air hydraulic pump
Mounting			2 screws M6, with coupling kit either directly on oil reservoir or on other lubricator elements
Tube connection			Thread
Port size control air			G1/8
Port size lubricant			Inlet: G 1/8 Outlet: M6 x 0.75
Weight (mass)		kg	0.40
Installation			Horizontal (oil channel S→S) see drawing
Control medium			Filtered compressed air
Lubricant			Mineral oil to DIN51524 and DIN 51525
Viscosity		mm ² /s	20-765
Medium and ambient temperatures	ϑ_{\min}	°C	-20
	ϑ_{\max}	°C	+80
Material	Housing		Diecast zinc
	Seals		Buna N
	Actuating plunger		Polyamid transparent
	Oil connection		Brass
Operating pressure range of air	p_{\min}	bar	3
	p_{\max}	bar	16
Operating pressure range of lubricant			Inlet: gravity fee or pressure feed (max. 3 bar)
			Outlet: 0-250 bar depending on operating pressure and oil injection conditions
Oil feed per stroke		mm ³	3-30 adjustable factory adjustment 30 mm ³ /stroke

Adjustment of Oil Feed

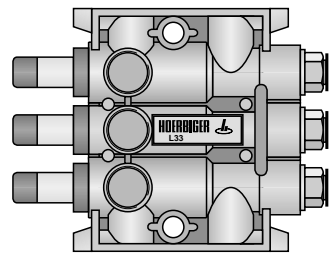


Injection Lubricator Combination

oilfit

L11
L31
L33

Lubricator elements for flanging to the reservoir or for extending a lubricator combination (with or without reservoir)

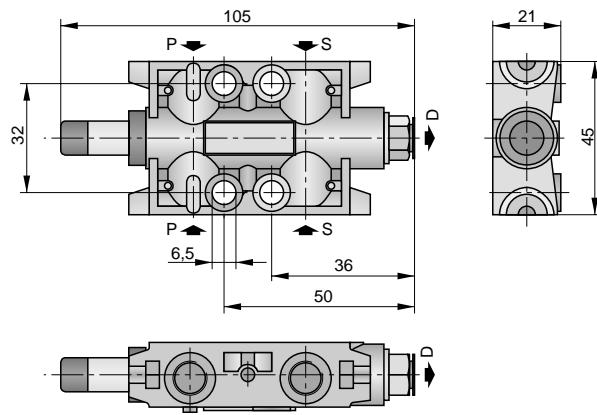


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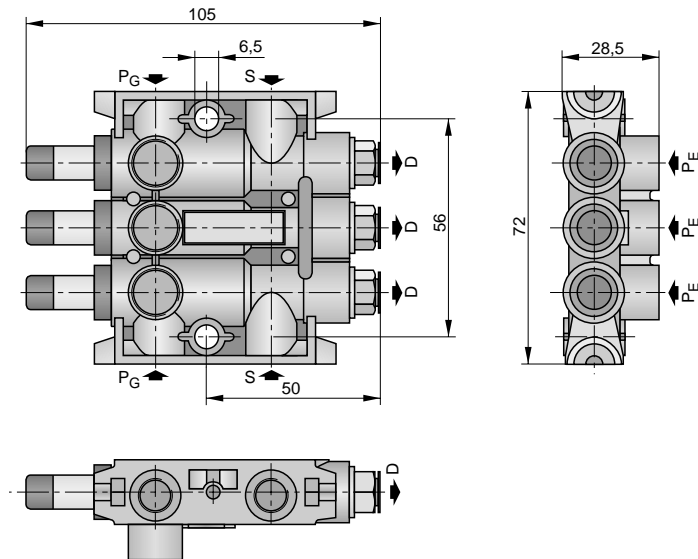
For product group list see 5.90.001E
For further lubricators see 5.90.002E-5.90.008E
For accessories see 5.91.002E-5.91.008E

Data Sheet No. 5.90.006E-1

Dimensions (mm)
Type: L11



Dimensions (mm)
Type: L31, L33



Order Instructions

Description	Type	Order No.
One-point injection lubricator element with air connection on top and bottom side	L11	KY 2033
Three-point injection lubricator element with air connection on top and bottom side for combined actuation (air signal simultaneously actuates all 3 pressure oil outlets)	L31	KY 2032
Three-point lubricator element with 3 lateral air connections (each air signal actuates only its corresponding pressure oil outlet)	L33	KY 2034

A1P349E00KY00X

The right to introduce technical modifications is reserved

Characteristics		Pressures quoted as gauge pressure					
System			Single point injection lubricator. Automatic oilfeed when connected pneumatic tool is switched on.				
Mounting			In-line mounting: 2 screws M6 are included in delivery				
Tube connection			Thread				
Port size			G1/4	G3/8	G1/2	G3/4	G1
Port size lubricant			Coupling for tube Ø 2.5/1.5 coaxially in airline				
Weight (mass)		kg	0.45	0.45	0.45	0.50	0.55
Installation			Flow direction of air flow sensor: horizontal				
Control medium			Filtered compressed air				
Lubricant			Mineral oil to DIN51524 and DIN 51525				
Viscosity		mm ² /s	20-765				
Medium and ambient temperatures	ϑ_{\min}	°C	-20				
	ϑ_{\max}	°C	+50				
Material	Injection lubricator		Diecast aluminium				
	Sensor housing		Diecast aluminium				
	Sensor flap		Acetal resin (POM)				
Operating pressure range control fluid	p_{\min}	bar	3				
	p_{\max}	bar	16				
Operating pressure range lubricant			Inlet: without pressure from fitted reservoir (gravity feed)				
			Outlet: 0-250 bar depending on operating pressure and oil injection conditions				
Recommended flow ¹⁾	Q_n	l/min m ³ /h	550 33	850 51	1900 114	3500 210	5000 300
Own air usage ²⁾	Q_n	m ³ /h	0.36				
Minimum flow at 6 bar	Q_{\min}	m ³ /h	9				
Reservoir capacity		cm ³	250				
Oil feed per stroke		mm ³	3-30 adjustable factory adjustment 30 mm ³ /stroke				
Optional extension kits			Up to max. 10 lubrication points by fitting of elements L11, L31 or L33				

¹⁾ at 6 bar and 25 m/s

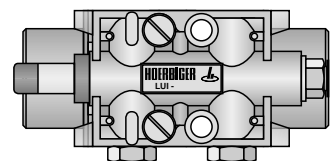
²⁾ at 6 bar and Ø 0.3 mm and $Q_n > Q_{\min}$ (i.e. only when there is flow)

Injection Lubricator Combination G1/4-G1

oilfit

LUI-..

Comprising:
Air flow sensor (U-..)
One-point injection lubricator (L10i)

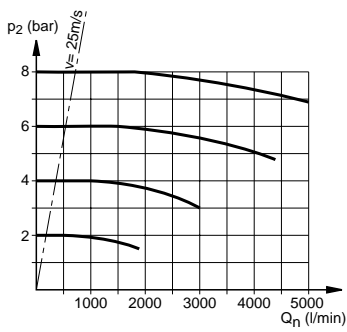


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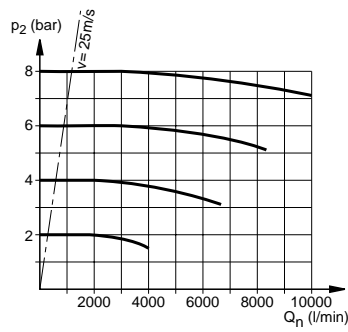
For product group list see 5.90.001E
For data sheets see 5.90.002E-5.90.008E
For accessories see 5.91.002E-5.91.008E

Data Sheet No. 5.90.008E-1

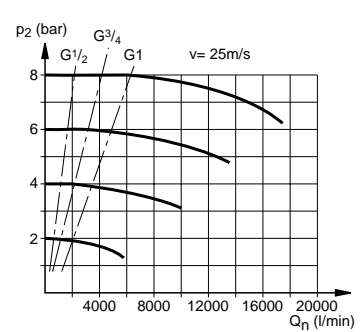
Flow Characteristics
Type: LUI-08



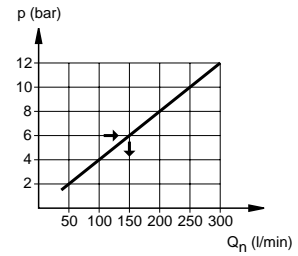
Flow Characteristics
Type: LUI-10



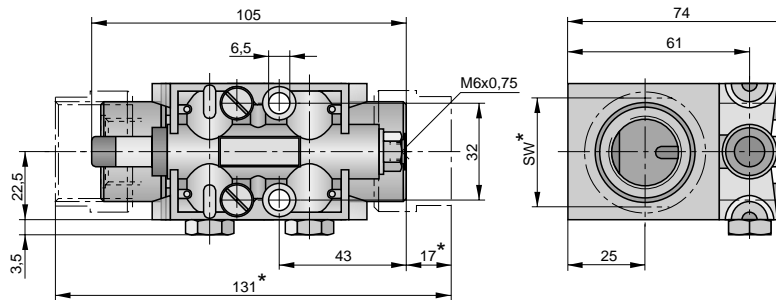
Flow Characteristics
Type: LUI-15, 20, 25



Minimum Flow

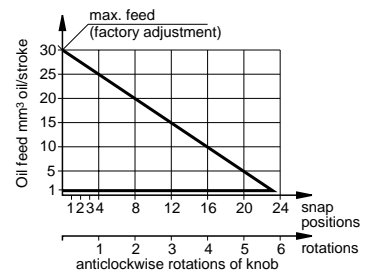


Dimensions (mm)



* only for LUI-20 SW=36
LUI-25 SW=41

Adjustment of Oil Feed



Order Instructions

Description	Port size	Type	Order No.
Injection lubricator combination	G1/4	LUI-08	PB 13449-001
Injection lubricator combination	G3/8	LUI-10	PB 13549-001
Injection lubricator combination	G1/2	LUI-15	PB 13649-001
Injection lubricator combination	G3/4	LUI-20	PB 13749-001
Injection lubricator combination	G1	LUI-25	PB 13849-001

Characteristics		Pressures quoted as gauge pressure					
System			Flow sensor for converting air flow into a digital air signal				
Mounting			In-line mounting, to element L10 2 screws M6				
Tube connection			Thread				
Port size control fluid			G1/4	G3/8	G1/2	G3/4	G1
Port size lubricant			Tube nipple for tube \varnothing 2.5/1.5 coaxially in airline				
Weight (mass)		kg	0.20	0.20	0.20	0.25	0.30
Installation			Horizontal				
Control medium			Filtered compressed air				
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	$^{\circ}\text{C}$ $^{\circ}\text{C}$	-20 +80				
Material			Diecast aluminium Flap: acetal resin (POM)				
Operating pressure range	p_{\min} p_{\max}	bar bar	3 16				
Recommended flow ¹⁾	Q_n	l/min m ³ /h	550 33	850 51	1900 114	3500 210	5000 300
Own air usage ²⁾	Q_n	m ³ /h	0.36				
Minimum flow at 6 bar	Q_{\min}	m ³ /h	9				

¹⁾ at 6 bar and 25 m/s

²⁾ at 6 bar and \varnothing 0.3 mm and $Q_n > Q_{\min}$ (i.e. only when there is flow)

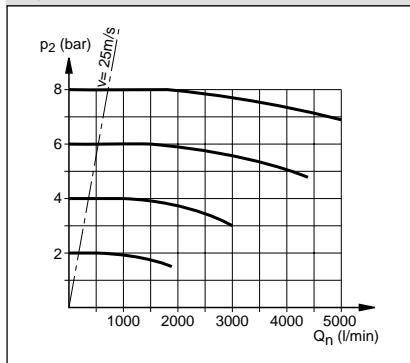
Air Flow Sensor

to Injection Lubricator Element Types L10i, L10e

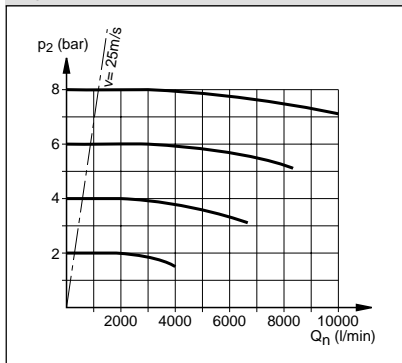
oilfit Accessories

U-..

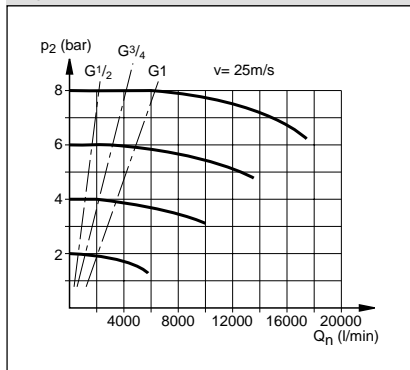
Flow Characteristics
Type: U-08



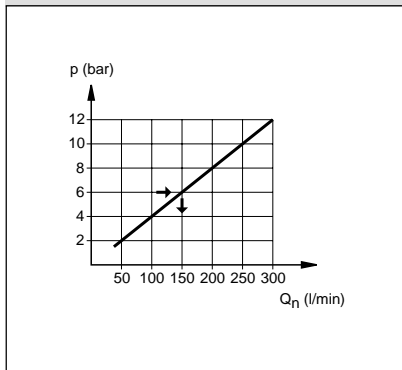
Flow Characteristics
Type: U-10



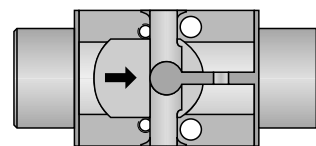
Flow Characteristics
Type: U-15, 20, 25



Minimum Flow



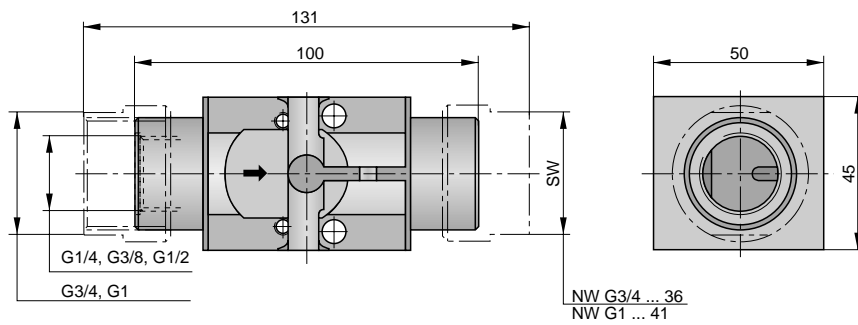
The airflow sensor converts air flow into a digital air signal.



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For product group list see 5.90.001E
For data sheets see 5.90.002E-5.90.008E
For accessories see 5.91.002E-5.91.008E

Dimensions (mm)



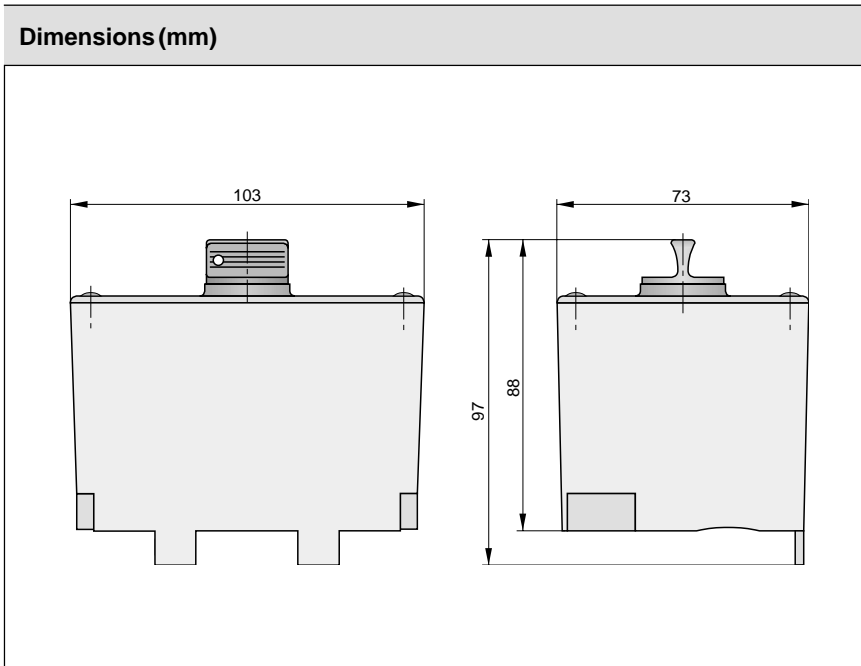
Order Instructions

Description	Port size	Type	Order No.
Air flow sensor	G1/4	U-08	PL08144
Air flow sensor	G3/8	U-10	PL08109
Air flow sensor	G1/2	U-15	PL08110
Air flow sensor	G3/4	U-20	PL08111
Air flow sensor	G1	U-25	PL08112

A1P155E00KY00X

The right to introduce technical modifications is reserved

Characteristics	
Type	Bi
Connection	Without thread, directly flangeable to lubricator element
Installation	Vertical, filling plug on top (see drawing)
Mounting	With coupling kit to lubricator element
Oil capacity	250 cm ³
Oil supply	Without pressure (gravity feed)
Material	Polyester resin (PETP)



Order Instructions		
Description	Type	Order No.
Oil reservoir directly flangeable to lubricator element	Bi	PL 08108

Accessories		
Description	Type	Order No.
Coupling kit (in 9 parts)	K	PL 08066

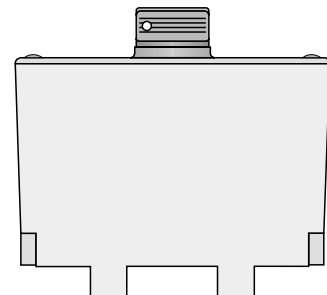
Data Sheet No. 5.91.003E

Oil Reservoir

oilfit Accessories

Bi

The reservoir provides oil supply for one or more lubricator element.



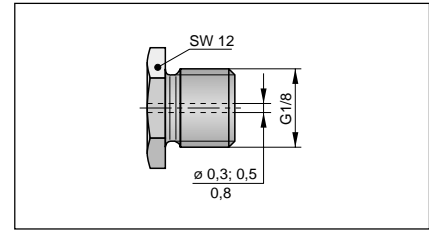
Injection Lubricator Accessories

Plug screw
Connection kit
Oil tube
Coupling kit



Plug Screw with Exhaust Port

The plug screw provides quick exhaust of lubricator element L10 in the combinations LUBI and LUBE. Exhaust port \varnothing optional (see order instructions).

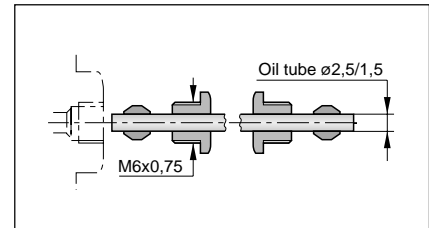


Order Instructions

Description	\varnothing Exhaust port	Order No.
Plug screw with exhaust port	0.3	PL 08326
Plug screw with exhaust port	0.5	PL 08325
Plug screw with exhaust port	0.8	PL 08324

Connection Kit - 12 parts

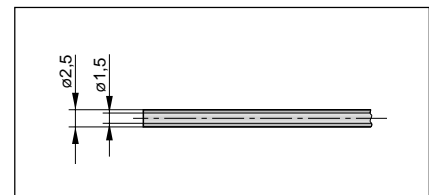
The connection kit consisting of 12 parts (for 3 pressure oil lines) is used for connecting pressure oil tubes with the lubricator element and the discharge element.



Order No.: **PL 08185 (Type A)**

Oil Tube

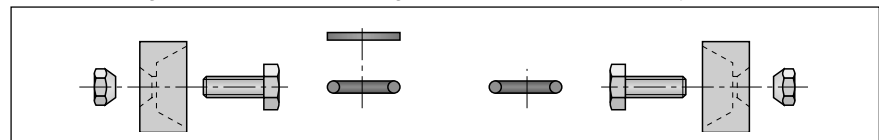
Connects the lubricator element with the oil discharge element on the unit to be lubricated (tool, cylinder).
Material: polyamid (PA)
Supplied in lengths of 10 m, pre-filled with oil and ends plugged.



Order No.: **PL 08187 (Type S)**

Coupling Kit

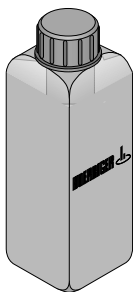
The coupling kit is used for assembling all the components of the system.



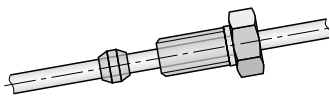
Order No.: **PL 08066 (Type K)**

Data Sheet No. 5.91.004E

Accessories



Order No.: **KY 8766**
see Data Sheet No. 5.61.050E



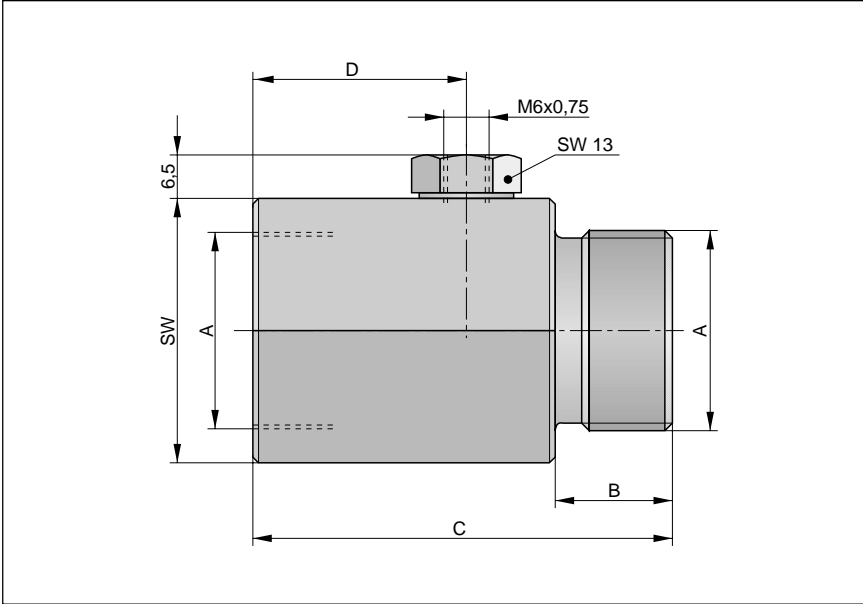
A1P156E00KY00X

The right to introduce technical modifications is reserved

A1P157E00KY00X

The right to introduce technical modifications is reserved

Dimensions (mm) Air Connection with Oil Injector



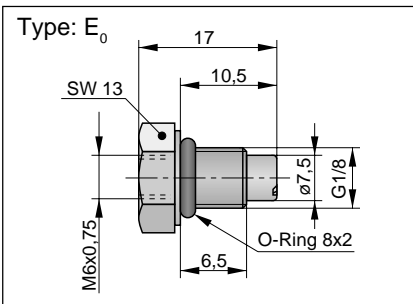
Dimension Table (mm)

Typ	A	B	C	D	SW
E-06	G1/8	8	35	17	22
E-08	G1/4	12	45	22	22

Order Instructions (inclusive E₀)

Description	Port size	Type	Order No.
Air connection with oil injector	G1/8	E-06	PL 08100
Air connection with oil injector	G1/4	E-08	PL 08101

Oil Injector - Single



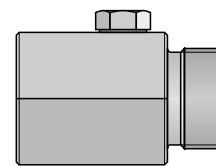
Oil injector with check valve for pressure oil line.

Air Connection with Oil Injector

oilfit Accessories

E₀

The air connection with oil injector connects the pressure oil line to the air line of a pneumatic unit (e.g. screws directly into a cylinder port).



Order No.: PL 08091

Data Sheet No. 5.91.005E



Characteristics

System			Oil reservoir for gravity feed of one or more injection lubricators
Connection			Thread
Port size			Inlet: M16x1.5 Outlet: G3/8
Installation			Vertical (see drawing)
Mounting			4 screws M8 Mounting brackets are included in delivery
Oil capacity		cm ³	4000
Type			B-04
Oil supply			Unpressurized
Weight (mass)		kg	4.50

Oil Reservoir

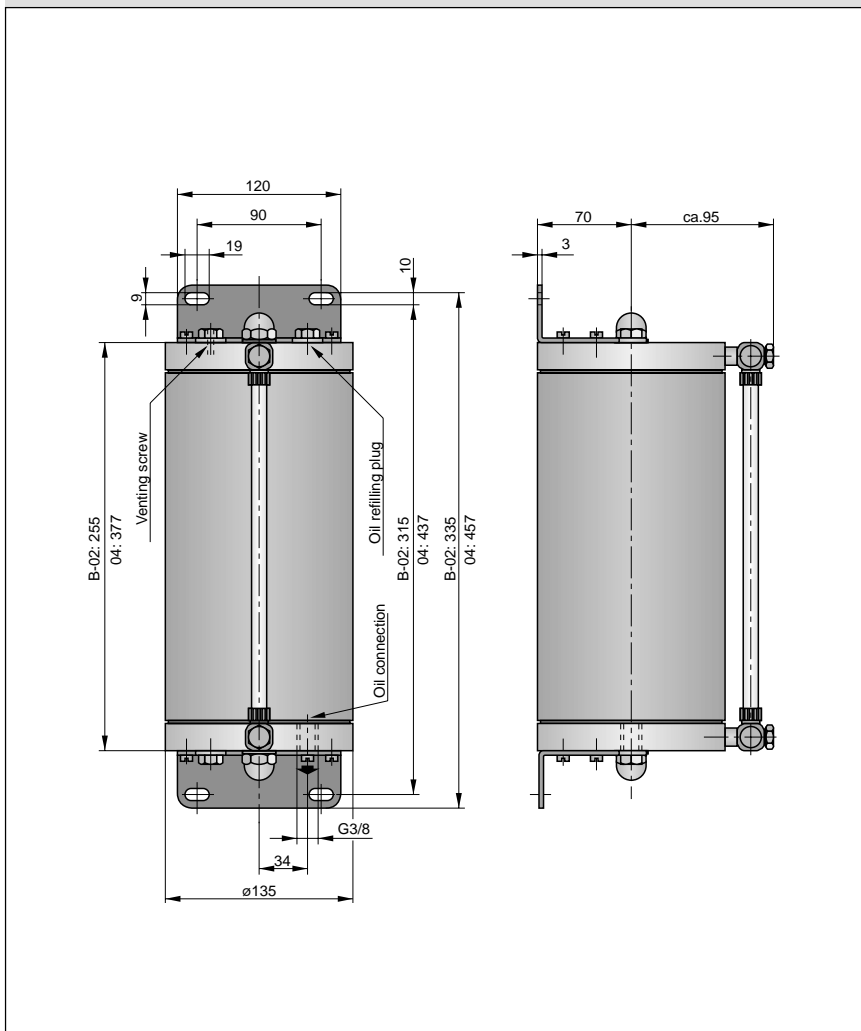
with sight glass

Capacity: 2l, 4l

oilfit Accessories

B-04

Dimensions (mm)



A1P182E00KY00X

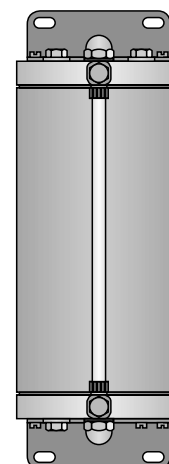
The right to introduce technical modifications is reserved

Order Instructions

Description	Type	Order No.
Oil reservoir for 4 l oil	B-04	PL 15534

For product group list see 5.90.001E
 For data sheets see 5.90.002E-5.90.008E
 For accessories see 5.91.002E-5.91.008E

Data Sheet No. 5.91.006E



The oil reservoir supplies one or more injection lubricators.



Atomizer

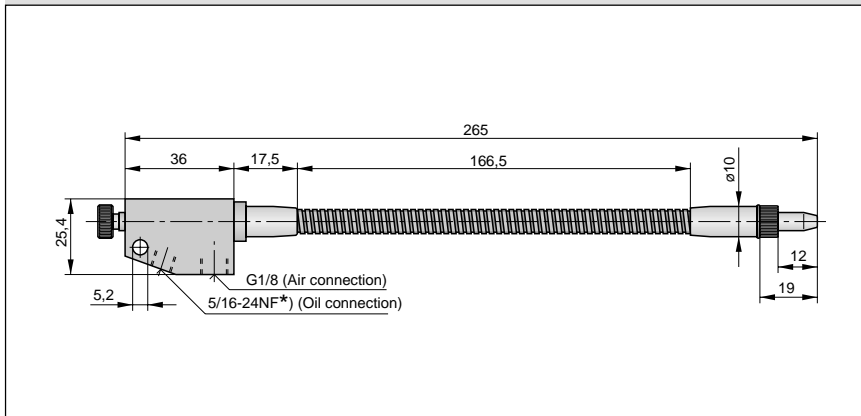
Types:
Flexible atomizer
Rigid atomizer

oilfit Accessories

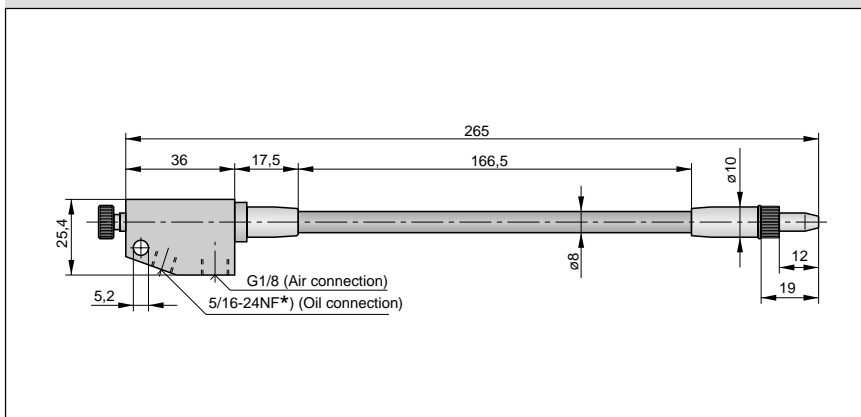
Characteristics

Adjustment of oil feed	With setting screw in the back of the housing
Oil connection	G1/8 for discharge element E ₀
Air connection	G1/8
Spray angle	Conical

Dimensions (mm) - Flexible Atomizer



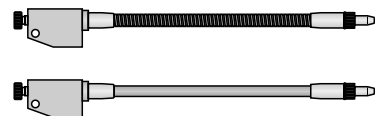
Dimensions (mm) - Rigid Atomizer



Accessories

Description	Type	Order No.
*) Adapter 5/16-24NF/G1/8	B-6056	KX 6026

Adjustable atomizer for all kinds of spraying operations (continuous jet).



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Order Instructions:
Flexible atomizer : KY 9914
Rigid atomizer : KY 8783

Data Sheet No. 5.91.008E

A1P283E00KY00X

The right to introduce technical modifications is reserved

Characteristics		Pressures quoted as gauge pressure		
System			Micro-mist-lubricator with pilot operated differential pressure regulating valve for the oil-feed adjustment	
Type			EL-25	EL-50
Port size			G1	G2
Max. oil capacity		cm ³	2500	5000
Oil refilling			Manual - also during operation	
Installation			Vertical	
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	+5 +60	
Weight (mass)		kg	10	18
Recommended pre-filter			XF-1	LF 7-50
Size of micro-mist particles		µm	0.2-2	
Recommended oil viscosity		mm ² /s	32 (32 cSt) ¹⁾	
Pneumatic Characteristic				
Recommended flow	Q_{\min} Q_{\max}	l/min(m ³ /h) l/min(m ³ /h)	100 (6) 5500 (330)	200 (12) 17000 (1000)
Operating pressure range	p_{\max}	bar	10	
Differential pressure range	p_{\min} p_{\max}	bar bar	0.2 0.8	0.2 1

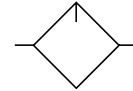
¹⁾ Use only recommended oils with viscosity VG32 to ISO 3448 (32 mm²/s at 40°C) or HOERBIGER special oil, Order No.: KY 8766 (Cat.-No. 5.61.050E)

Central Air Line Lubricator

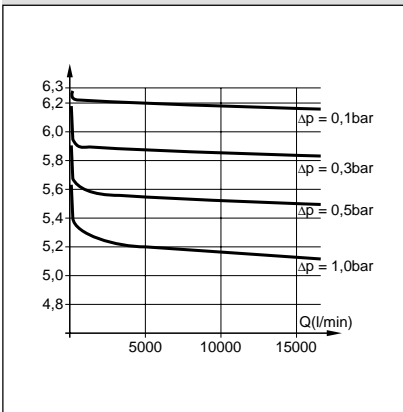
G1, G2

airfit magnum

EL...



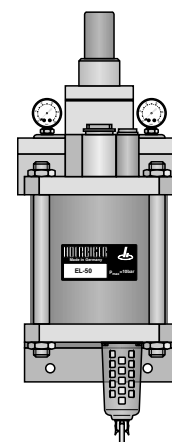
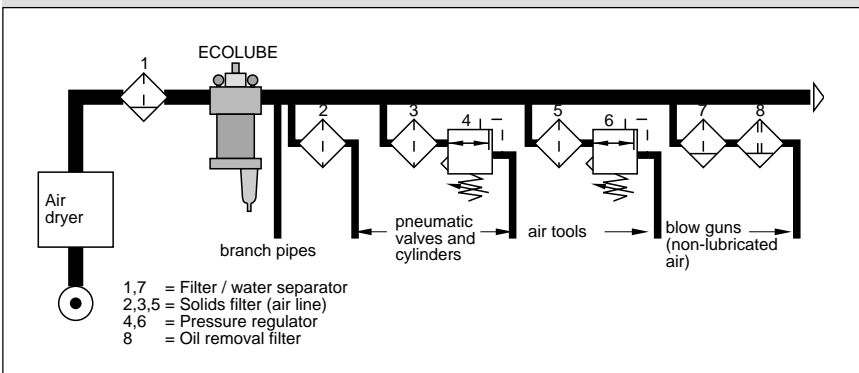
Differential pressure in relation to of the flow rate



Installation Advice

In most cases it is advisable to instal HOERBIGER air line filters in branch pipes. When constant operating pressures are required (e.g. cylinders, pneumatic screw drivers, etc.) HOERBIGER pressure regulators should be used. If small amounts of oil-free air are needed, a HOERBIGER filter-water-separator followed by a MICROFIT submicrofilter can be installed (see Installation Diagram).

Installation Diagram



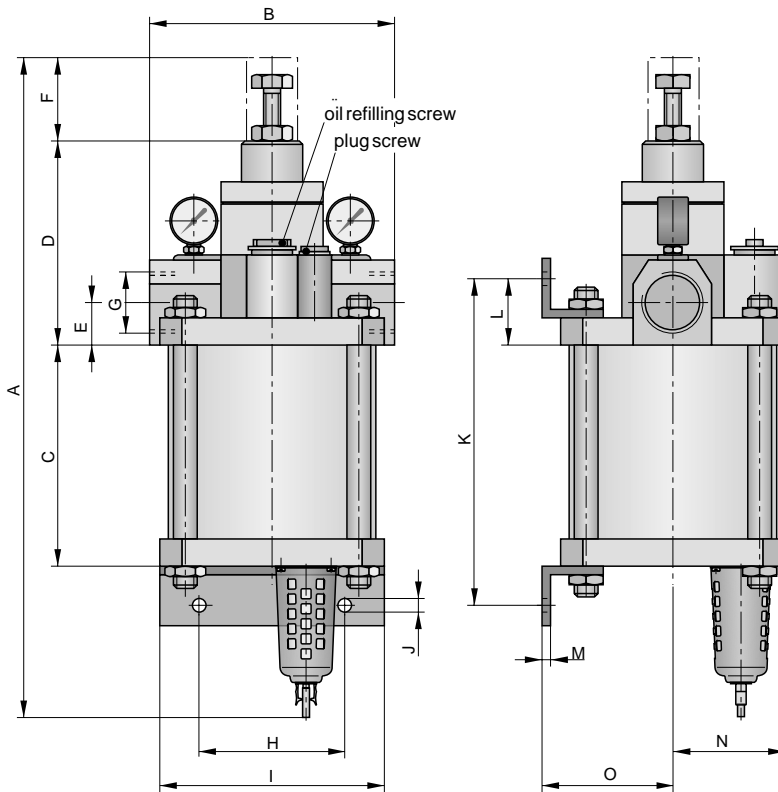
Mikro-mist-lubricator with oil-feed adjustment depending on differential pressure.

Comprising: lubricator unit 2 gauges and mounting bracket

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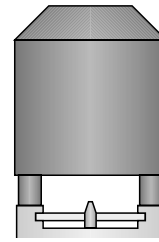
Dimensions (mm)

EL-25
EL-50



Accessories

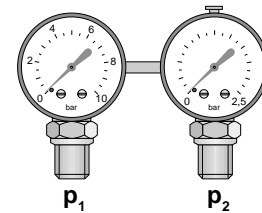
Oil micro-mist tester G1



Order No.: PL 16775

Accessories

Differential pressure gauge
Assembly kit with mounting kit



Order No.: EL-20/25 PL 17652
EL-40/50 PL 17653

Dimension Table

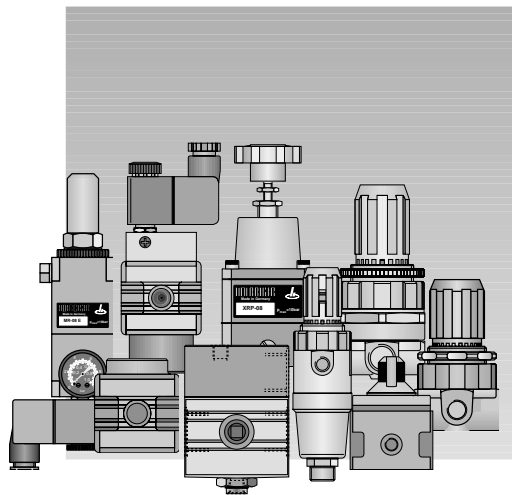
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
EL-25	530	180	187	160	35	37	G1	115	180	18	304	77	3	90	110
EL-50	608	250	225	198	46	45	G2	150	225	13	342	72	6	112.5	124.1

Order Instructions












Description	Port size	Type	Order No.
Basic model with transparent glassfibre-reinforced plastic tube	G1	EL-25	PB 15749-020
	G2	EL-50	PB 15549-020
Model with electric oil level control (aluminium tube)	G2	EL-50-E	PB 15549-026

PNEUMATIC GROUP

SPECIAL UNITS



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		Port size	Recommended flow (l/min)*	Type	Data Sheet No.
Dual pressure regulating valve		G1/4	550	MR-08 P	5.95.002E
		G1/4	550	MR-08 E	
Soft start valve		G1/4	550	SDA-1/4	5.95.015E
		G3/8	850	SDA-3/8	5.95.020E
		G3/8	850	CDA-3/8	
		G1/2	1900	CDA-1/2	
Stop valve		G1/4	550	SDR-1/4 P	5.95.016E
		G3/8	850	SDR-3/8 P	
		G1/4	550	SDR-1/4 E	
		G3/8	850	SDR-3/8 E	
		G3/8	850	CDR-3/8 P	5.95.019E
		G1/2	1900	CDR-1/2 P	
		G3/8	850	CDR-3/8 E	
		G1/2	1900	CDR-1/2 E	
Start-stop valve		G3/4	1900	XDS-3/4	5.95.017E
		G1	1900	XDS-1	
Water regulator		G1/8		WRS-06	5.95.010E
		G1/4		WRS-08	
Pressure relief valve		G1/2		XR-15 E	5.95.011E
Filter regulator		(Output) G1/4 (Input) G3/8	550	MFRS-08	5.95.012E
Precision pressure regulating valve		G1/4		XRP-08-8	5.95.013E
		G1/4		XRP-08-4	
		G1/4		XRP-08-08	
Pressure regulating valve for panel mounting		G1/8	300	MRS-06	5.95.021E
		G1/4	550	MRS-08	

* For max. flows see diagrams on single data sheet.
Max. flow is much higher than the given recommended flow.

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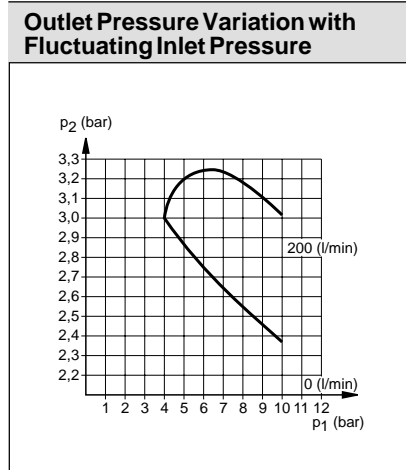
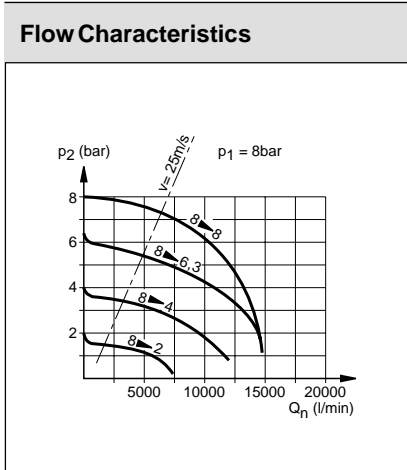
The right to introduce technical modifications is reserved

Table of Contents see 5.00.001E

Data Sheet No. 5.95.001E-2

Characteristics		Pressures quoted as gauge pressure		
System			Spring loaded diaphragm-type pressure regulating valve with pneumatic or electrical actuation	
Type			MR-08P	MR-08E
Actuation			Pneumatic	Electrical
Port size			G1/4 G1/8 (at pilot control port)	
Installation			In any position	
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	$^{\circ}\text{C}$ $^{\circ}\text{C}$	0 +60	When using below freezing point it is necessary to consult us
Weight (mass)		kg	0.55	0.65
Pneumatic Characteristic				
Operating pressure range - inlet pressure	$p_{1\min}$ $p_{1\max}$	bar bar	0 10	
Operating pressure range - outlet pressure	$p_{2\min}$ $p_{2\max}$	bar bar	0.5 8	(2 different pressures can be set)
Min. pressure difference	$p_1 - p_2$	bar	0.2	
Hysteresis $p_1=10/p_2=0$ Hysteresis $p_1=10/p_2=8$		bar bar	1.6 0.6	
Recommended flow ¹⁾	Q_n	l/min m ³ /h	550 33	
Electrical Characteristic				
Voltage			AC	DC
Nominal Voltage	U_n	V	220	24
			Further voltages on request	
Initial power consumption		VA (W)	8.5	2.5
Continuous consumption		VA (W)	6.0	2.5
Duty cycle	ED	%	100	
Electrical protection			IP 65 to DIN 40050 (with plug)	
Insulating material			F to VDE 0580	
Connection			Plug to DIN 43650	

¹⁾ at $p_2=6$ bar and 25 m/s



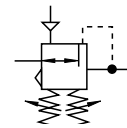
Dual Pressure Regulating Valve

G1/4

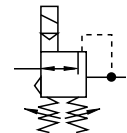
**Actuation: Pneumatic
Electrical**

airfit

MR-08P



MR-08E



For setting 2 different outlet pressures in one unit. Switching from the lower to the higher value is effected pneumatically or electrically.

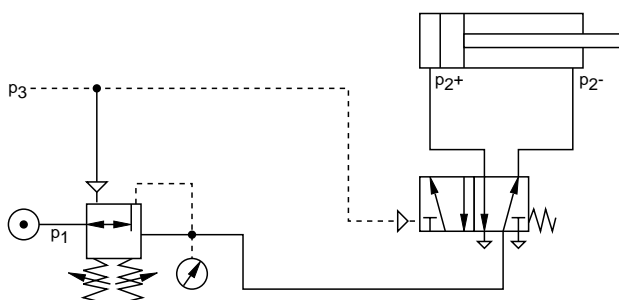
Application: Energy saving during cylinder operations, for clamping devices etc.

Example: Different operating pressures can be set for the forward and reverse stroke of a cylinder. Energy saving increases proportionally to the difference of the two outlet pressures.

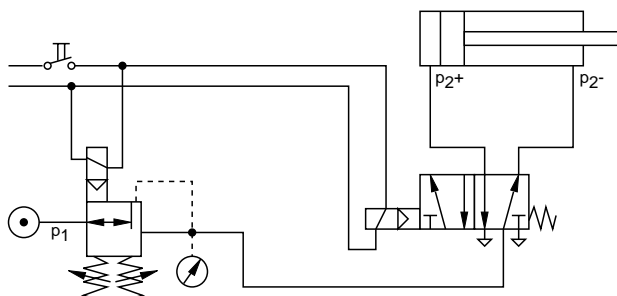


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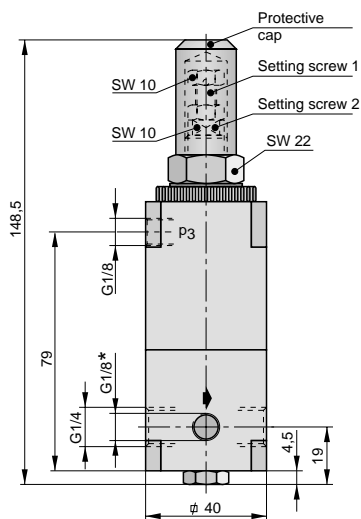
Dual Pressure Regulating Valve Pneumatically Actuated Type: MR-08P



Dual Pressure Regulating Valve Electrically Actuated Type: MR-08E

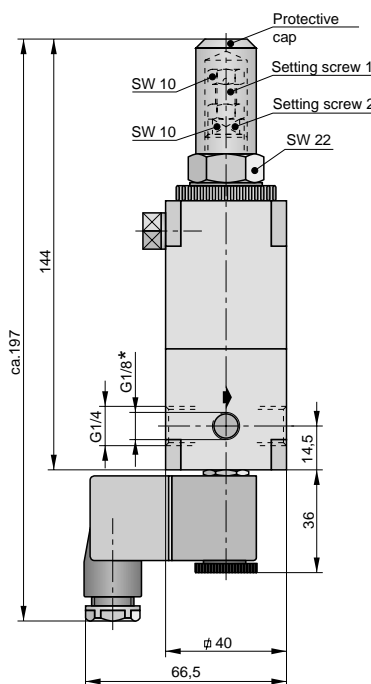


Dimensions (mm) Type: MR-08P



* Gauge port on both sides

Dimensions (mm) Type: MR-08E



* Gauge port on both sides

Order Instructions

Type	Actuation	Voltage	Order No.
MR-08P	Pneumatic	-	PB 21649-200
MR-08E	Electrical	24 V=	PB 21649-203
		220 V/50 Hz	PB 21649-206

Other voltages on request.

The actuating pressure p_3 both actuates the higher operating pressure p_{2+} on the dual pressure regulating valve and switches the 5/2 way valve, so that the cylinder makes its forward stroke with the higher pressure p_{2+} .

When actuating pressure p_3 is removed, the lower pressure p_{2-} is set on the dual pressure regulating valve and the 5/2 way valve switches back, so that the cylinder makes its return stroke with the lower pressure p_{2-} .

The electrical signal both actuates the higher operating pressure p_{2+} on the dual pressure regulating valve and switches the 5/2 way valve, so that the cylinder makes its forward stroke with the higher pressure p_{2+} .

When the electrical signal stops, the lower pressure p_{2-} is set on the dual pressure regulating valve and the 5/2 way valve switches back, so that the cylinder makes its return stroke with the lower pressure p_{2-} .

Functioning

Both the higher p_{2+} and the lower p_{2-} operating pressure are set by means of setting screws.

p_{2-} with setting screw 2. The screw is secured by a knurled nut.

p_{2+} with setting screw 1. The screw is secured by a hexagon nut.

Accidental changes of the set pressures are prevented by a protective cap.

The respective pressure can be shown by a gauge, which is an optional accessory.

Accessories

Description	Order No.
Gauge	KZ 8813

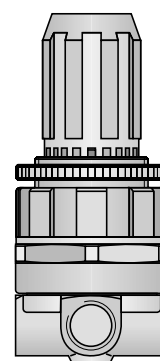
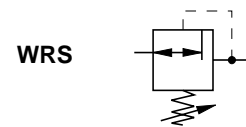
Characteristics		Pressures quoted as gauge pressure	
System			Diaphragm type pressure regulator (spring loaded)
Type		WRS-06	WRS-08
Port size		G1/8	G1/4
Installation			In-line mounting, wall mounting with bracket or panel mounting ($\varnothing 30.3^{+0.2}$ mm to DIN 43696)
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	0 +60 (further temperatures on request)
Weight (mass)		kg	0.25
Pneumatic Characteristics			
Operating pressure range - inlet pressure	$p_{1\min}$ $p_{1\max}$	bar bar	0 10
Operating pressure range - outlet pressure	$p_{2\min}$ $p_{2\max}$	bar bar	0.5 on request 0.5 0.5 ¹⁾ 8 3 4
Min. pressure difference	$p_1 - p_2$	bar	0.2

¹⁾ By the use of special springs, the outlet pressure can be precisely regulated in the specified p_2 range.

Pressure Regulating Valve

G1/8, G1/4

for use with water



Diaphragm-type pressure regulator (spring loaded) for water

- Robust brass housing with glassfibre-reinforced polymer upper body for hard use
- Mounting ring included
- Handwheel lockable

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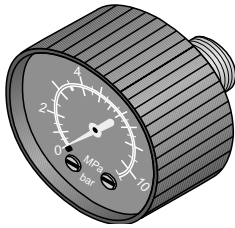
For product group list see 5.95.001E

Data Sheet No.5.95.010E-1

Accessories

Gauge

Ø 40, 0-10 bar, G1/8



Order No.: KZ 8813

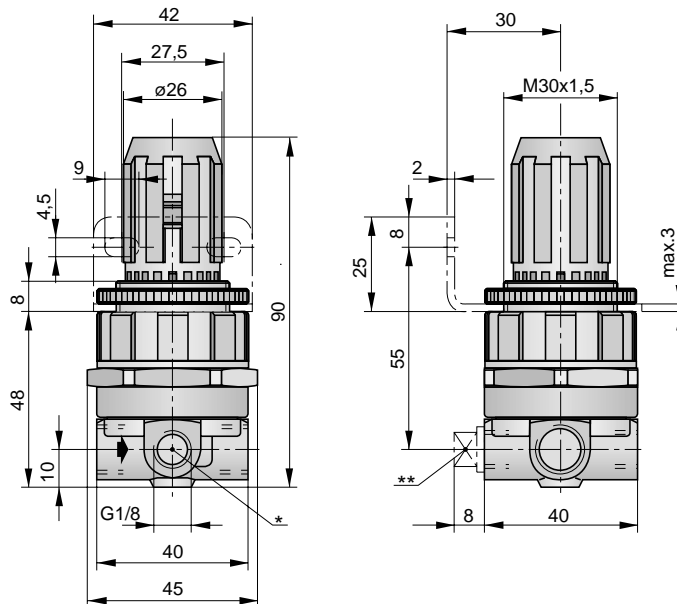
Accessories

Mounting bracket



Order No.: PL 15531

Dimensions (mm)



* Two opposite gauge ports.

** On delivery the plug is not assembled.

Order Instructions

Description	Port size	Type	Order No.
06	G1/8	WRS-06	PB 21749-020
08	G1/4	WRS-08	PB 21649-020

Accessories

Description	Order No.
Gauge Ø 40, 0-10 bar	KZ 8813
Mounting bracket	PL 15531
Regulator spring for operating pressure 3 bar	PL 15876
Regulator spring for operating pressure 4 bar	PL 16776
Mounting ring for sheet thickness 6 mm (hole Ø 36.5 - 38 mm)	PL 16198
Mounting ring for sheet thickness 8 mm (hole Ø 36.5 - 38 mm)	PL 15925

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The right to introduce technical modifications is reserved

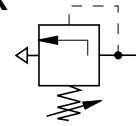
Characteristics		Pressures quoted as gauge pressure	
System			Pressure relief valve (pilot operated) with adjustable opening pressure and high flow capacity
Type			XR-15 E
Port size			G1/2
Installation			beliebig
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	$^{\circ}\text{C}$ $^{\circ}\text{C}$	0 +60 (further temperatures on request)
Weight (mass)		kg	0.75
Pneumatic Characteristics			
Operating pressure range - inlet pressure	$p_{1\min}$ $p_{1\max}$	bar bar	0 16
Operating pressure range - outlet pressure	$p_{2\min}$ $p_{2\max}$	bar bar	0.5 10 (16)

Pressure Relief Valve

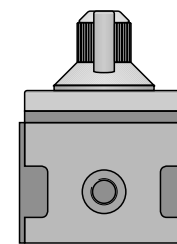
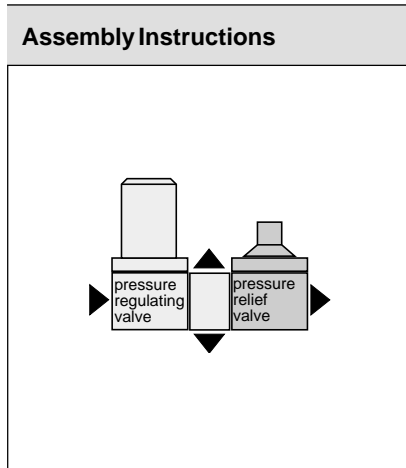
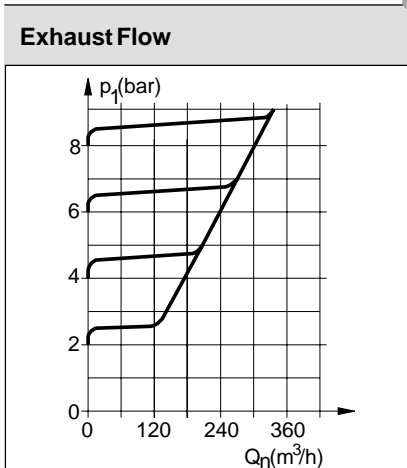
G1/2

airfit C, X

XR-15 E



2000 - discontinued
for the new Pressure Relief Valve Type SR-...E
see data sheet no. 5.95.022E



Pressure relief valve with adjustable opening pressure and high flow capacity.

For air preparation units see 5.20-002E-5.20.005E
For product group list see 5.95.001E

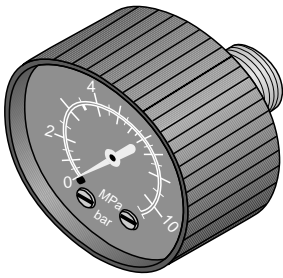
Data Sheet No.5.95.011E-1



Accessories

Gauge

Ø 50, 0-10 bar, G1/8

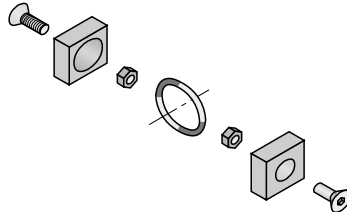


Order No.: KZ 8815

Accessories

Coupling kit

for connecting 2 single units

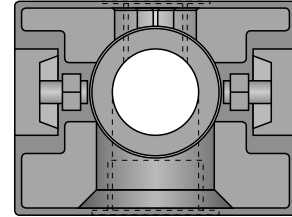


Order No.: PL 08267

Accessories

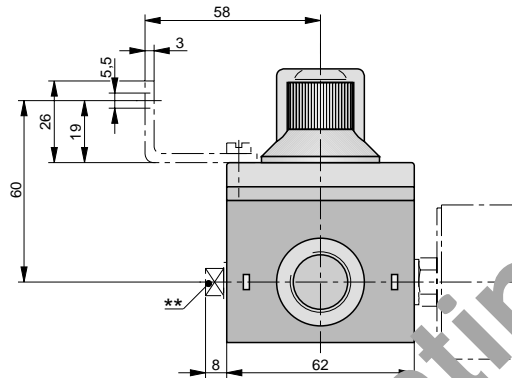
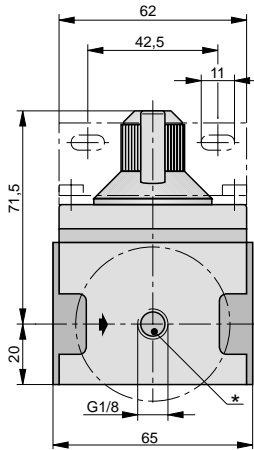
Porting block kit

to provide unlubricated air
for ruther details see 5.21.001E



Order No.: PL 15003

Dimensions (mm)



Order Instructions

Description	Port size	Type	Order No.
Basic model	G1/8	XR-15 E	PB 10549-100

Accessories

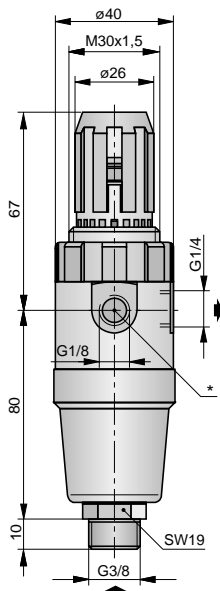
Description	Order No.
Gauge Ø 50 mm, 0-10 bar, G1/8	KZ 8815
Mounting kit	PL 15169
Coupling kit	PL 08267
Porting block kit G1/2, G1/4	PL 15003
3/2 way shut-off valve XDV-15	PB 12349-000
Regulator spring for operating pressure 16 bar	PL 15758

Characteristics		Pressures quoted as gauge pressure	
System			Filter element combined with piston-type pressure regulating valve (spring loaded) in strong housing.
Type			MFRS-08
Port size			G3/8 inlet G1/4 outlet
Pore size of filter element		µm	30
Condensate drainage			Into receiver below
Installation			Vertical
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	0 +60 at 10 bar
Weight (mass)		kg	0.5
Pneumatic Characteristic			
Operating pressure range - inlet pressure	$p_{1\min}$	bar	0
	$p_{1\max}$	bar	10
Operating pressure range - outlet pressure	$p_{2\min}$	bar	0.5
	$p_{2\max}$	bar	8
Min. pressure difference	$p_1 - p_2$	bar	0.2
Hysteresis $p_1=10/p_2=0$		bar	1,6
	Hysteresis $p_1=10/p_2=8$	bar	0,6
Recommended flow ¹⁾	Q_n	l/min m ³ /h	550 33

¹⁾ at $p_2 = 6.3$ bar and 25 m/s

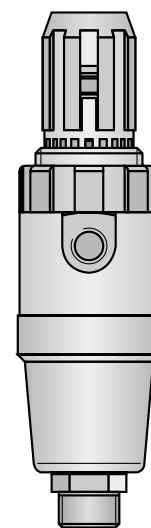
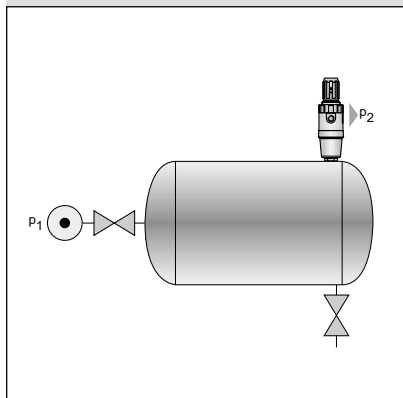
Dimensions (mm)

Type: MFRS-10



* Gauge port G1/8

Assembly Instructions



Robust filter-regulator for direct mounting on to compressor's receiver.

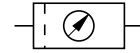
Filter-Regulator

G3/8

for small capacity Compressors

airfit

MFRS



Order Instructions

Description	Type	Order No.
Basic model	MFRS-08	PB 40199-029

For product group list see 5.95.001E

Data Sheet No. 5.95.012E

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Characteristics		Pressures quoted as gauge pressure			
System			Diaphragm-type pressure regulating valve (2 diaphragm), pre-stage spring controlled, integrated filter		
Type			XRP-08-8	XRP-08-4	XRP-08-08 ¹⁾
Port size			G1/4		
Installation			In any position		
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	-5 +60		
Weight (mass)		kg	0,7		
Material					
Housing			Aluminium		
Internals			Partly Ms, NBR		
Pneumatic Characteristic					
Operating pressure range - inlet pressure	$p_{1\min}$	bar	1	1	1
	$p_{1\max}$	bar	10	7	7
Operating pressure range - outlet pressure	$p_{2\min}$	bar	0.5	0.1	0.02
	$p_{2\max}$	bar	8	4	0.8
Own air usage	Q	l/min	max. 10 at full airflow		
Hysteresis		bar	max. 0.1 bar		
Recommended flow ²⁾	Q_n	l/min	75 x (p₂ + 1) for p₂ pressures quoted in bar		

¹⁾ The precision pressure regulator should not be used for "static" applications, i.e. with zero airflow. In such cases a small "artificial" airflow should be created on the secondary side using a 0.3 - 0.6 mm Ø jet.

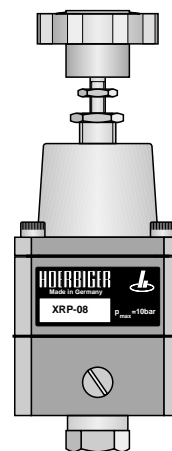
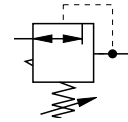
²⁾ Corresponds to 25 m/s with NW8 mm bore.

Higher airspeeds can lead to large pressure drops in the connected air lines, although the precision pressure regulator will handle larger airflows in most cases (see diagrams).

2000 - discontinued

Precision Pressure Regulator G1/4

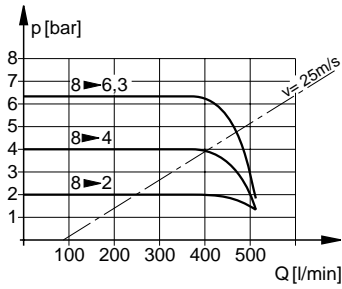
XRP



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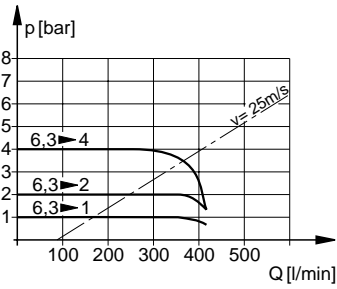
Flow Characteristic

Type: XRP-08-8



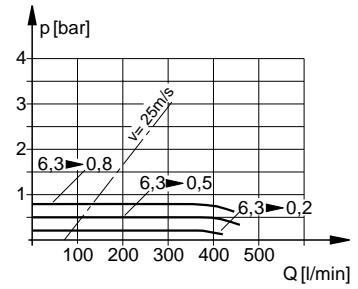
Flow Characteristic

Type: XRP-08-4

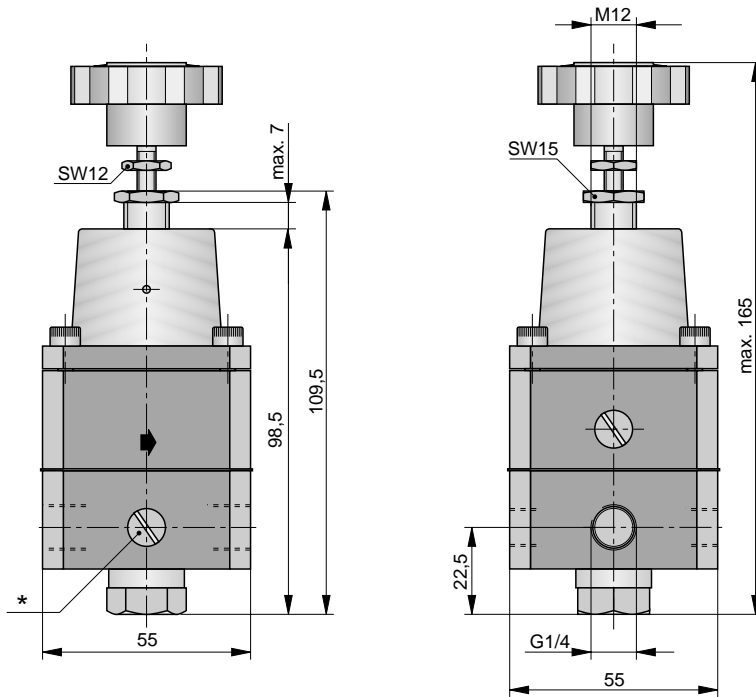


Flow Characteristic

Type: XRP-08-08



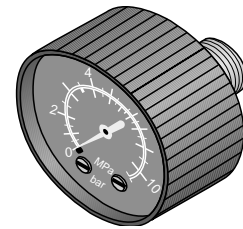
Dimensions (mm)



* Two opposite gauge ports G1/8
On delivery the plug screws are not assembled.

Accessories

Gauge
Ø 40, G1/8 hinten



Order No.: KZ 8894 0-1.6 bar
KZ 8811 0-4 bar
KZ 8813 0-10 bar

Order Instructions

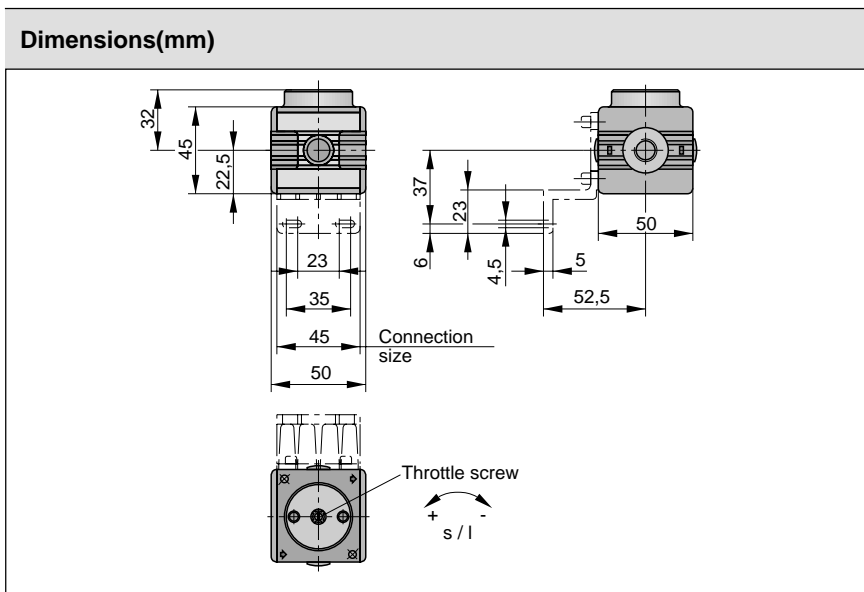
Description	Portsize	Type	Order No.
Precision pressure regulator	G1/4	XRP-08-8	PB 03249-000
Precision pressure regulator	G1/4	XRP-08-4	PB 03249-001
Precision pressure regulator	G1/4	XRP-08-08	PB 03249-002

Characteristics		Pressures quoted as gauge pressure	
System		Poppet valve with integral throttle for slow pressure build-up (e.g. after emergency shutdown). At 0.5 x operating pressure the valve switches to full flow.	
Type		SDA-1/4	SDA-3/8
Port size		G1/4	G3/8
Installation		In any position - direct assembly to air preparation units series AIRFIT-swing	
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	bar bar	0 (further temperatures on request) +60
Weight (mass)		kg	0.35
Pneumatic Characteristics			
Operating pressure range	p_{\min} p_{\max}	bar bar	2 16
Recommended flow ¹⁾	Q_n	l/min m ³ /h	550 33
Maximum flow ²⁾	Q_{\max}	l/min m ³ /h	1500 90

¹⁾ at $p_2 = 6.3$ bar and 25 m/s

²⁾ at $p_1 = 6.3$ bar and $\Delta p = 1$ bar

Flow time in start phase with adjustment screw fully open and 6.3 bar: 1,5 s/l



Order Instructions			
Description	Port size	Type	Order No.
Soft start valve	G1/4	SDA-1/4	PB 47149-100
Soft start valve	G3/8	SDA-3/8	PB 47249-100

Accessories	
Description	Order No.
Coupling kit	PL 16959

For soft start valve G1/2 see 5.95.004E
 For air preparation units see 5.12.002E - 5.12.008E
 For product group list see 5.95.001E

Data Sheet No. 5.95.015E

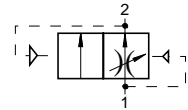
Soft Start Valve

G1/4, G3/8

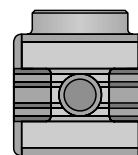
(Pressure build-up valve)



SDA-..



Safety valve for slow pressure build-up in pneumatic circuits. It prevents uncontrolled movements of the pneumatic components under the impact of full operating pressure. Pressure build-up time can be adjusted with the throttle screw.



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Characteristics		Pressures quoted as gauge pressure	
System		3/2 way poppet valve with pneumatic or electrical actuation and integrated exhaust silencer	
Type		SDR-1/4 P (E)	SDR-3/8 P (E)
Actuation		Pneumatic(P) or electrical (E)	
Port size		G1/4	G3/8
Installation		In any position - direct assembly to the soft start valve SDA-1/4 or to air preparation units series AIRFIT swing	
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	0 +60 (further temperatures on request)
Weight (mass)		kg	0.5 (0.8) 0.5 (0.8)
Pneumatic Characteristic			
Operating pressure range	p_{\min} p_{\max}	bar bar	2 16
Recommended flow ¹⁾	Q_n	l/min m ³ /h	550 33 850 51
Maximum flow ²⁾	Q_n	l/min m ³ /h	1500 90 1600 96

¹⁾ at $p_2 = 6,3$ bar and 25 m/s

²⁾ at $p_1 = 6.3$ bar, $\Delta p = 1$ bar

Venting Time in Relation to Volume	
Pressure Reduction Range	Ventin Time (s) *
von 8 → 0.1bar	$0.7 \times V (l) = t (s)$
von 6 → 0.1bar	$0.65 \times V (l) = t (s)$
von 4 → 0.1bar	$0.55 \times V (l) = t (s)$
von 2 → 0.1bar	$0.45 \times V (l) = t (s)$

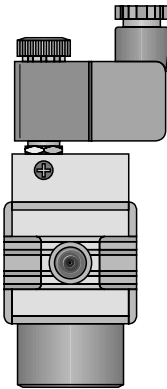
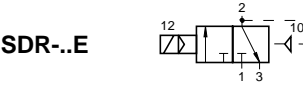
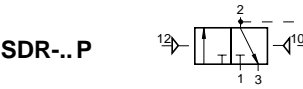
* Notes: This calculation assumes short connections with NW 8 mm tubing directly after the SDR stop valve.

Assembly Instructions

Stop Valve

G1/4, G3/8

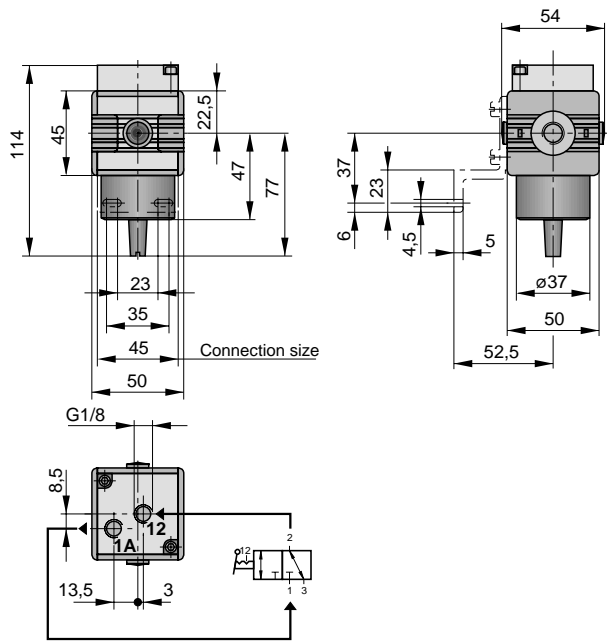
**Actuation: Pneumatic
Electrical**



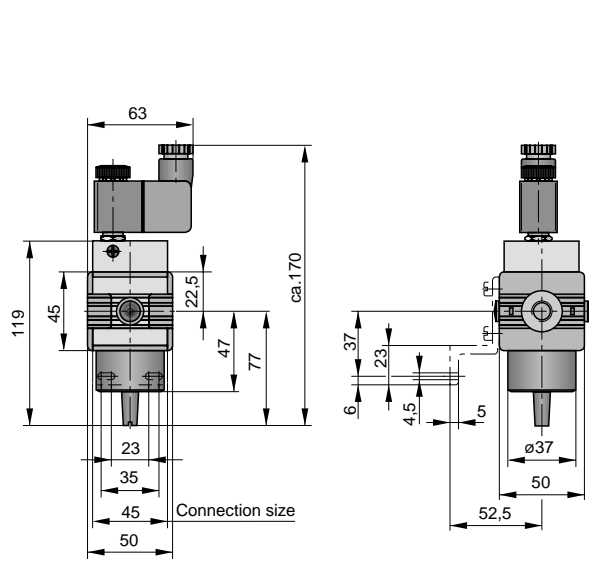
The stop valve is used in conjunction with the soft start valve for exhausting pneumatic circuits.



Dimensions (mm)
Type: SDR-1/4 P, SDR-3/8 P



Dimensions (mm)
Type: SDR-1/4 E, SDR-3/8 E



Order Instructions

Description	Actuation	Symbol	Nominal voltage	Port size	Type	Order No.
Stop Valve	Pneumatic		—	G1/4	SDR-1/4 P	PB 47149-200
			—	G3/8	SDR-3/8 P	PB 47249-200
	Electrical		24 V DC	G1/4	SDR-1/4 E	PB 47149-201
			24 V DC	G3/8	SDR-3/8 E	PB 47249-201
			220 V/50Hz	G1/4	SDR-1/4 E	PB 47149-204
			220 V/50Hz	G3/8	SDR-3/8 E	PB 47249-204

Accessories

Description	Order No.
Mounting kit	PL16965
Coupling kit	PL 16959

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The right to introduce technical modifications is reserved

Characteristics		Pressures quoted as gauge pressure		
System			Start-stop valve with pneumatic actuation and built-in exhaust silencer	
Type			XDS-3/4	XDS-1
Actuation			Pneumatic	
Port size			G3/4	G1
Installation			In any position	
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	bar bar	0 (further temperatures on request) +60	
Weight (mass)		kg	1.75	1.75
Pneumatic Characteristics				
Operating pressure range	p_{\min} p_{\max}	bar bar	2 10	
Recommended flow ¹⁾	Q_n	l/min m ³ /h	3500 210	5000 300
Maximum flow ²⁾	Q_{\max}	l/min m ³ /h	14000 845	16000 965

¹⁾ at $p_1 = 6.3$ bar and 25 m/s

²⁾ at $p_1 = 6.3$ bar and $\Delta p = 1$ bar

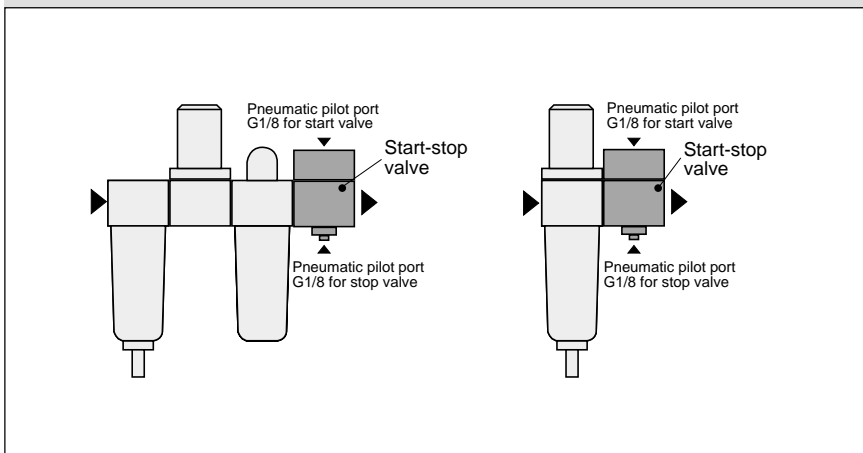
Flow time in start phase with adjustment screw fully open and 6.3 bar: 0.03 s/l

Venting Time in Relation to Volume		
Pressure Reduction from to	Venting Time (s) *	
8 → 0.1bar	$0.085 \times V (l) = t (s)$	
6 → 0.1bar	$0.075 \times V (l) = t (s)$	
4 → 0.1bar	$0.07 \times V (l) = t (s)$	

* Note:

This calculation assumes short connections with NW 25 mm tubing directly after the XDS stop valve

Installation Instructions



For air preparation units see 5.22.002E - 5.22.003E
For product group list see 5.95.001E

Data Sheet No. 5.95.017E-1

Start-Stop Valve

G3/4, G1

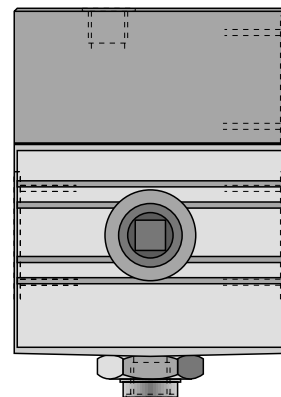
Actuation: Pneumatic



XDS-..

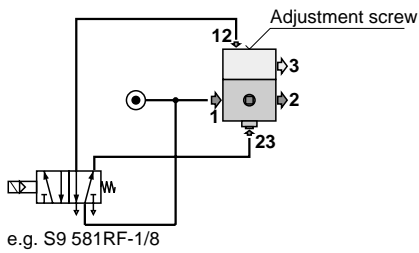
The start function provides slow pressure build-up and the stop function provides venting in pneumatic equipment.

- Easily adaptable to customer's choice of colour and private labelling
- Thread available pressure build-up time adjustable
- Start and stop functions combined in one unit

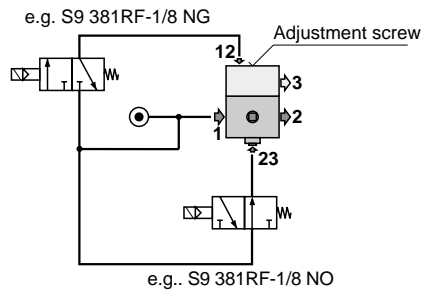


Examples of Circuits

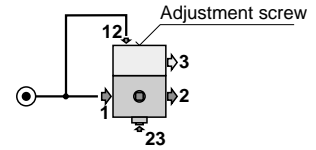
Combined start/stop function



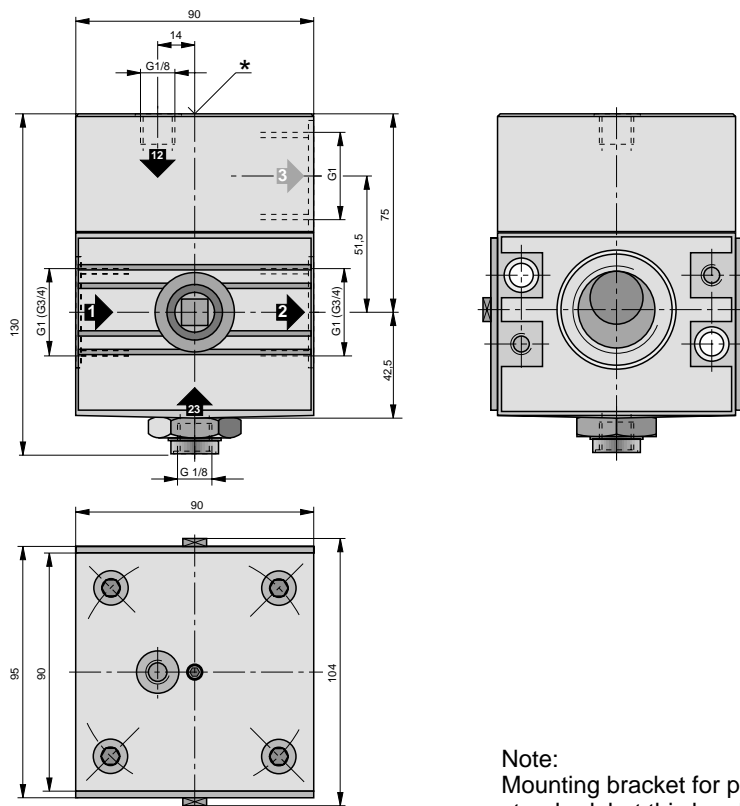
Combined start/stop function with acknowledgment



Start function



Dimensions (mm) Type: XDS-3/4, XDS-1



* Adjustment screw for pressure build-up time (SW 3 socket screw)

Note:
Mounting bracket for p_2 side is included as standard, but this bracket is only needed if a G1 exhaust silencer is used.
Please order standard bracket separately.

Order Instructions

Description	Actuation	Port size	Type	Order No.
Start-stop valve	pneumatic	G3/4	XDS-3/4	PB 32649-100
		G1	XDS-1	PB 32749-100

Accessories

Description	Order No.
Coupling kit	PL15670
Mounting kit	PL15669

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The right to introduce technical modifications is reserved

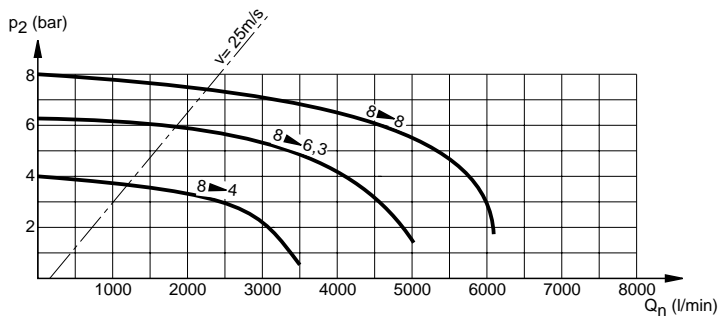
Characteristics		Pressures quoted as gauge pressure			
System		3/2 way poppet valve with pneumatic or electrical actuation and integrated exhaust silencer			
Type		CDR-3/8 P	CDR-1/2 P	CDR-3/8 E	CDR-1/2 E
Actuation		Pneumatic		electrical	
Port size		G3/8	G1/2	G3/8	G1/2
Installation		In any position - direct assembly to the soft start valve CDA or to air preparation units series AIRFIT comfort			
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	0 +60	(further temperatures on request)	
Weight (mass)		kg	0.7	0.8	
Pneumatic Characteristic					
Operating pressure range	p_{\min} p_{\max}	bar bar	2 16		
Recommended flow ¹⁾	Q_n	l/min m ³ /h	850 51	1900 114	850 51
Maximum flow ²⁾	Q_{\max}	l/min m ³ /h	2500 150	2900 174	2500 150

¹⁾ at $p_2 = 6,3$ bar and 25 m/s

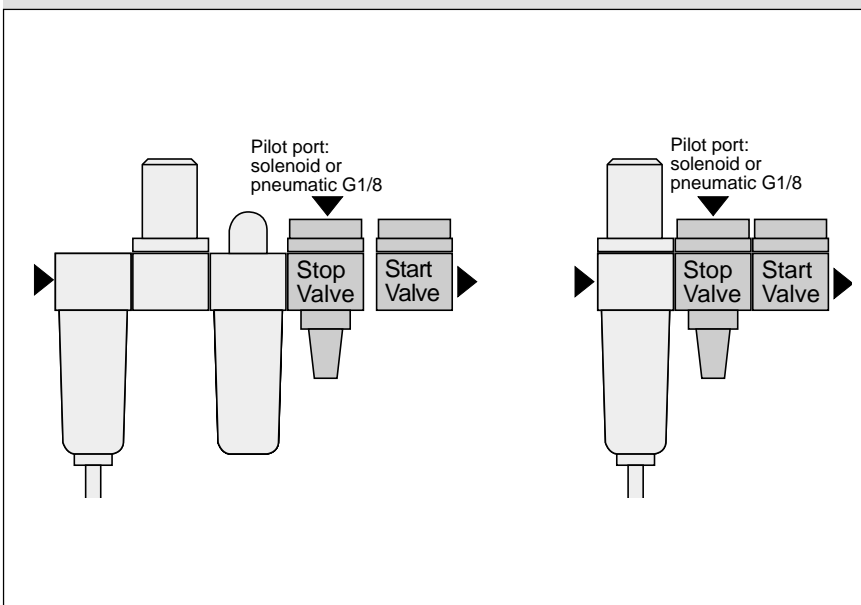
²⁾ at $p_1 = 6.3$ bar, $\Delta p = 1$ bar

Flow Characteristic

Type: CDR-1/2



Assembly Instructions



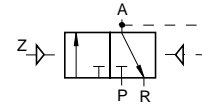
Stop Valve

G3/8, G1/2

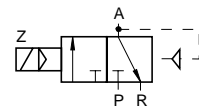
Actuation: **Pneumatic**
Electrical

airfit comfort

CDR-3/8 P
CDR-1/2 P



CDR-3/8 E
CDR-1/2 E



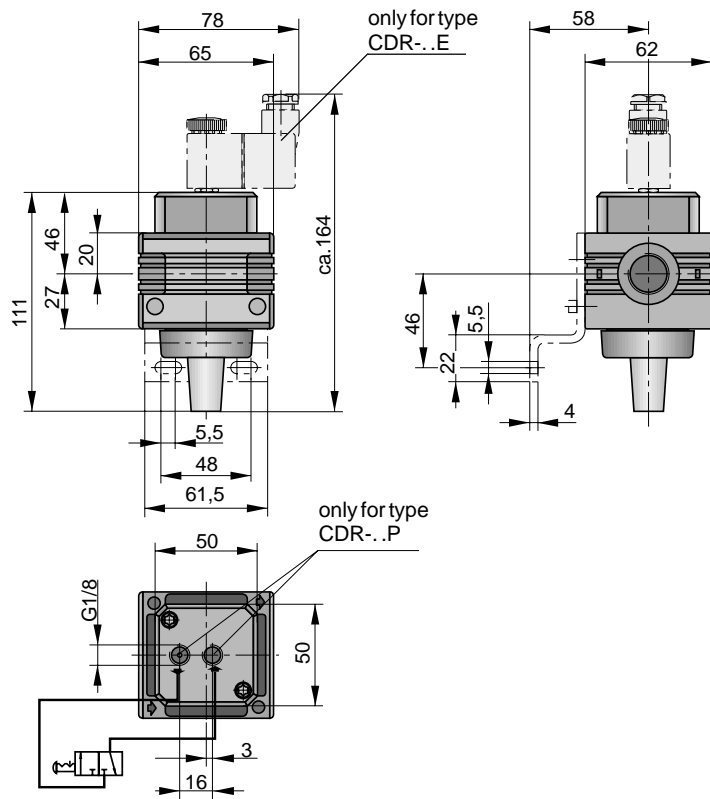
The stop valve is used in conjunction with the soft start valve for exhausting pneumatic circuits.



- Easy and quick installation of mounting kit
- Suitable for direct wall mounting
- Modern design
- Version with NPTF thread

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Actuation: pneumatic, electrical,
 Type: CDR-3/8 P, CDR-1/2 P
 Type: CDR-3/8 E, CDR-1/2 E



Order Instructions

Description	Actuation	Symbol	Nominal voltage	Port size	Type	Order No.
Stop Valve	Pneumatic			G3/8	CDR-3/8 P	PB 57249-200
				G1/2	CDR-1/2 P	PB 57349-200
	Electrical		24 VDC	G3/8	CDR-3/8 E	PB 57249-201
				G1/2	CDR-1/2 E	PB 57349-201
			230 V/50Hz	G3/8	CDR-3/8 E	PB 57249-204
				G1/2	CDR-1/2 E	PB 57349-204

Accessories

Description	Order No.
Mounting kit	PL 17518
Coupling kit	PL 17608
Adapter kit G3/4	PL 17682

Characteristics		Pressures quoted as gauge pressure	
System		Poppet valve with integral, adjustable throttle* for slow pressure build-up (e.g. after emergency shutdown). At 0.5 x operating pressure the valve switches to full flow.	
Type		CDA-3/8	CDA-1/2
Port size		G3/8	G1/2
Installation		In any position - direct assembly to air preparation units series AIRFIT-comfort	
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	bar bar	0 (further temperatures +60 on request)
Weight (mass)		kg	0.60
Pneumatic Characteristics			
Operating pressure range	p_{\min} p_{\max}	bar bar	2 16
Recommended flow ¹⁾	Q_n	l/min m ³ /h	850 51
Maximum flow ²⁾	Q_{\max}	l/min m ³ /h	3500 210

¹⁾ at $p_z = 6.3$ bar and 25 m/s

²⁾ at $p_i = 6.3$ bar and $\Delta p = 1$ bar

***) Note:**

During the start-phase no components in the system should consume any air (build-up only).

Flow time in start phase with adjustment screw fully open and 6.3 bar: 1.5 s/l

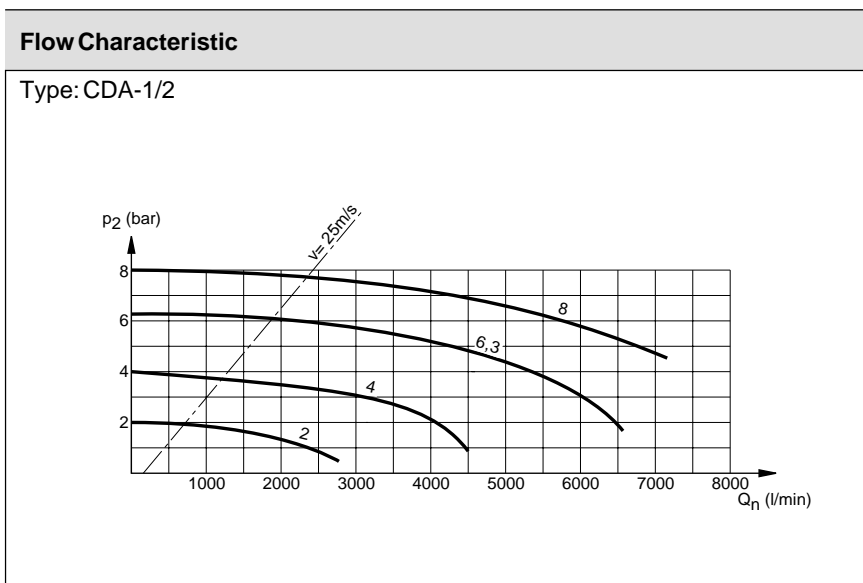
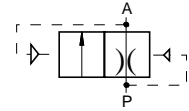
Soft Start Valve

G3/8, G1/2

(Pressure build-up valve)

airfit comfort

CDA-3/8
CDA-1/2



Safety valve for slow pressure build-up in pneumatic circuits.

It prevents uncontrolled movements of the pneumatic components under the impact of full operating pressure.

- Easy and quick installation of mounting kit
- Suitable for direct wall mounting
- Modern design
- Version with NPTF thread



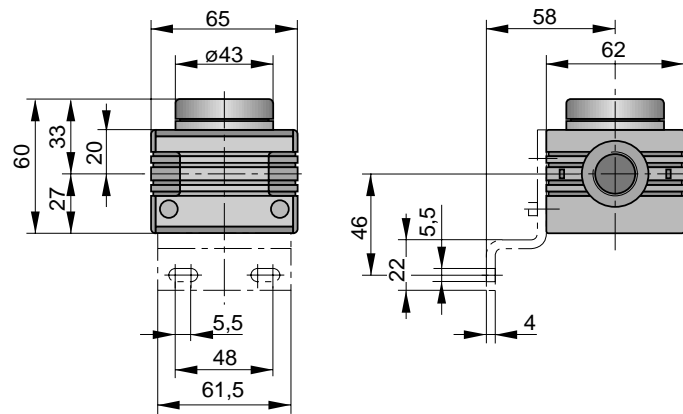
For table of contents see 5.00.001E

Data Sheet No. 5.95.020E-1



Dimensions (mm)

Type: CDA-1/2



Order Instructions

Description	Port size	Type	Order No.
Soft start valve	G3/8	CDA-3/8	PB 57249-100
Soft start valve	G1/2	CDA-1/2	PB 57349-100

Accessories

Description	Order No.
Mounting kit	PL 17518
Coupling kit	PL 17608
Adapter kit G3/4	PL 17682

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The right to introduce technical modifications is reserved

Characteristics		Pressures quoted as gauge pressure	
System		Piston-type pressure regulating valve (pilot operated) with secondary pressure relief	
Type		MRS-06	MRS-08
Port size		G1/8	G1/4
Installation		In-line mounting with bracket or panel mounting (Ø30.3 ^{+0.2} mm to DIN 43696)	
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	0 +60 (further temperatures on request)
Weight (mass)		kg	0,18
Pneumatic Characteristics			
Operating pressure range - inlet pressure	$p_{1\min}$ $p_{1\max}$	bar bar	0 10
Operating pressure range - outlet pressure	$p_{2\min}$ $p_{2\max}$	bar bar	0.5 on request 8 0.5 3 0.5 ³⁾ 4
Min. pressure difference	$p_1 - p_2$	bar	0.2
Hysteresis $p_1=10/p_2=0$		bar	1.6
Hysteresis $p_1=10/p_2=8$		bar	0.6
Recommended flow ¹⁾	Q_n	l/min m ³ /h	300 18 550 33
max. flow ²⁾	Q_{\max}	l/min m ³ /h	350 33 585 35

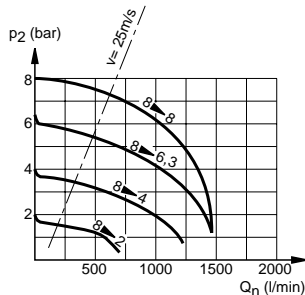
¹⁾ at 6.3 bar and 25 m/s

²⁾ at $p_1 = 10$ bar and $p_2 = 6,3$ bar, $\Delta p = 1$ bar

³⁾ By the use of special springs, the outlet pressure can be precisely regulated in the specified p_2 range.

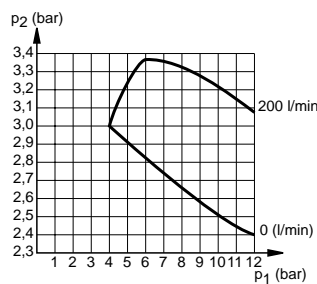
Flow Characteristics

Type: MRS-08

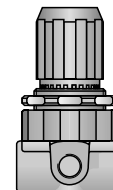


Outlet Pressure Variation with Fluctuating Inlet Pressure

Type: MRS-08



Piston-type pressure regulating valve (pilot operated) with secondary pressure relief - Handwheel lockable



- Mounting ring included
- Robust brass housing with glassfibre reinforced polymer upper body for hard use

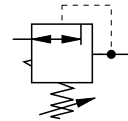
Pressure Regulating Valve

G1/8, G1/4

for panel mounting

airfit

MRS



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For single units see 5.09.004E-5.09.008E
 For air preparation units see 5.09.002E, 5.09.003E
 For product group list see 5.09.001E

Data Sheet No.5.95.021E-1

Accessories

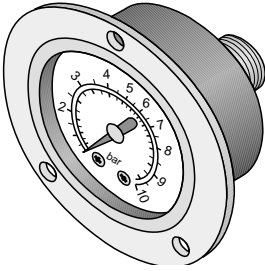
Gauge
Ø 40, 0-10 bar



Order No.: KZ 8891

Accessories


Gauge for panel mounting
Ø 40, 0-10 bar



Order No.: KZ 8822

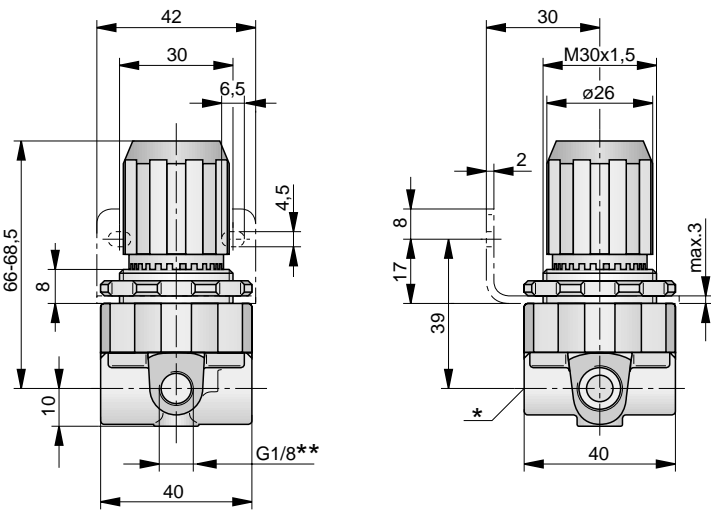
Accessories

Mounting bracket



Order No.: PL 15531

Dimensions (mm)



* On delivery the plug is not assembled.
** Two opposite gauge ports G1/8

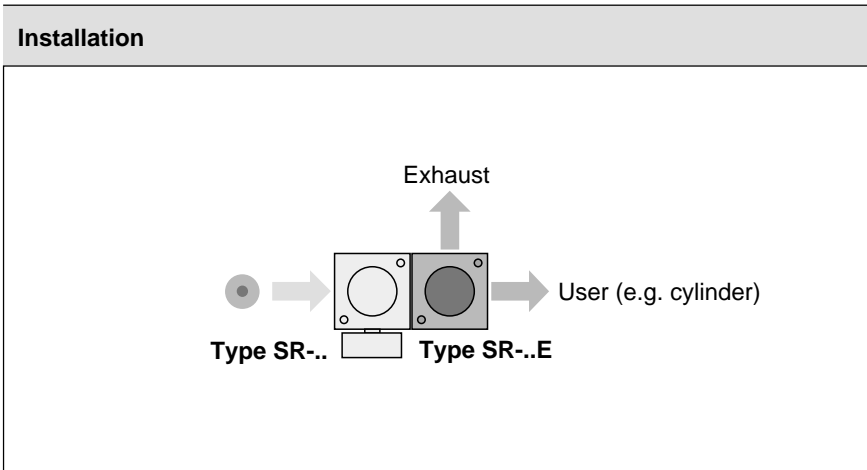
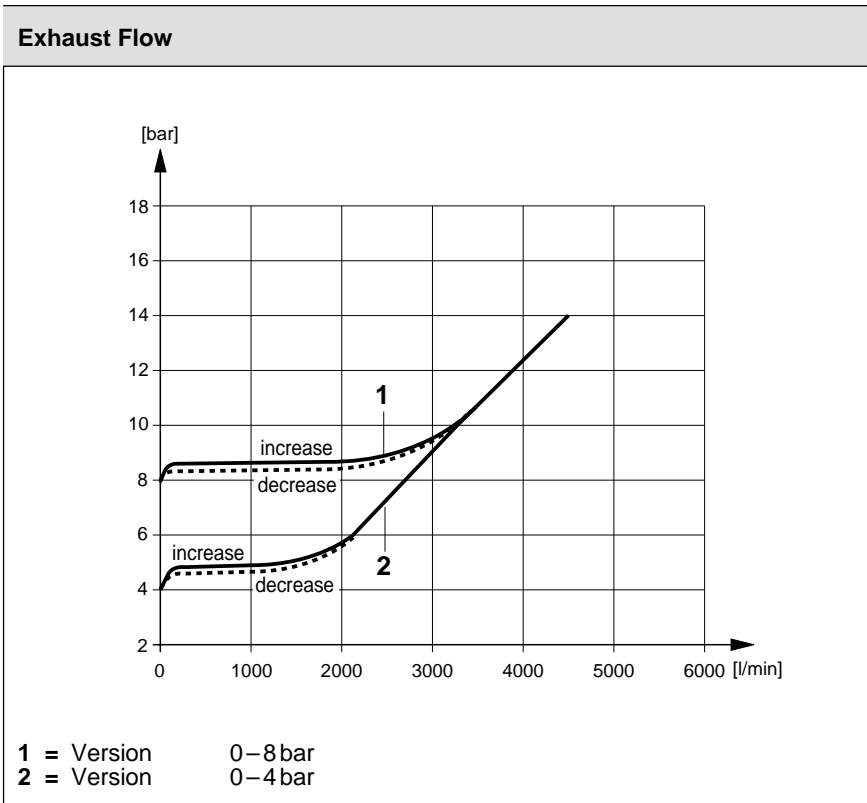
Order Instructions			
Description	Port size	Type	Order No.
06	G1/8	MRS-06	PB 21749-010
08	G1/4	MRS-08	PB 21649-010

Accessories	
Description	Order No.
Gauge, Ø 40, 0-10 bar	KZ 8891 (airfit light design) KZ 8813 (neutral)
Gauge for panel mounting Ø 40, 0-10 bar	KZ 8822
Mounting bracket	PL 15531
Regulator spring for operating pressure 3 bar	PL 15876
Regulator spring for operating pressure 4 bar	PL 16776
Mounting ring for sheet thickness 6 mm (hole Ø 36.5 - 38 mm)	PL 16198
Mounting ring for sheet thickness 8 mm (hole Ø 36.5 - 38 mm)	PL 15925

A1P484E00DY00X

The right to introduce technical modifications is reserved

Characteristics		Pressures quoted as gauge pressure		
System			Pressure limiting valve with adjustable opening pressure for venting of large air volumes (full flow)	
Type			SR-1/8E	SR-1/4E
Port size			G1/8	G1/4
Installation			beliebig	
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	°C °C	0 +60	(further temperatures on request)
Weight (Masse)		kg	0,3	
Pneumatic Characteristic				
Operating pressure range	$p_{1\min}$ $p_{1\max}$	bar bar	0 8 – 4	– according to the type

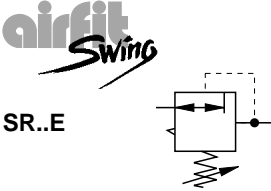


For single units see 5.12.004E-5.12.008E
 For air preparation units see 5.12.002E-5.12.003E
 For product group list see 5.12.001E

Data Sheet No. 5.95.022E-1

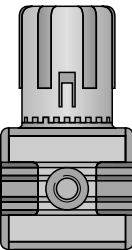
Pressure Relief Valve

G1/8, G1/4, G3/8



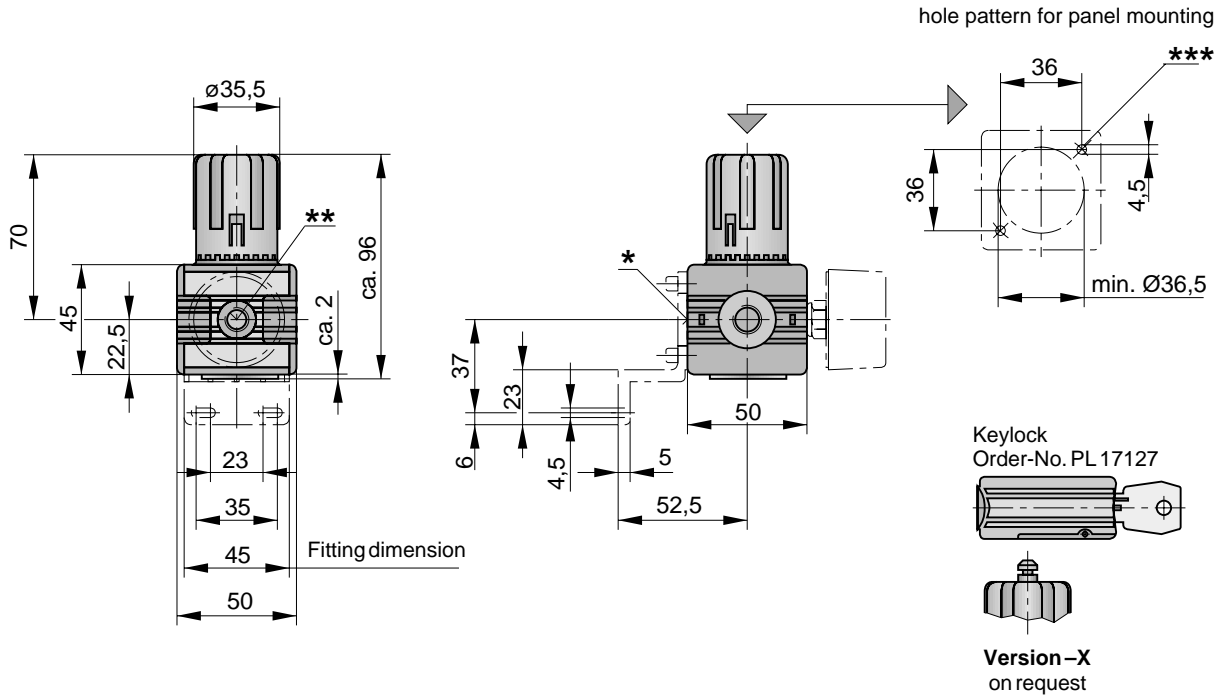
– for Series Airfit Swing

- can be screwed directly into air line
- Version with NPTF thread
- colour and print can be customer-specific
- Pressure limiting valve with adjustable opening pressure for venting of large air volumes (full flow)



Dimensiones (mm)

Type: SR-1/8E, 1/4E, 3/8E



- * On delivery the plug is not assembled
- ** Two opposite gauge ports G1/8
- *** for self-tapping screw ..., screw depth max. 10 mm

Order Instructions

Pressure range *	Port size	Type	Order No.
0–8 bar	G1/8	SR-1/8E	PB 45349-150
	G1/4	SR-1/4E	PB 45449-150
	G3/8	SR-3/8E	PB 45549-150
0–4 bar	G1/8	SR-1/8E	PB 45349-151
	G1/4	SR-1/4E	PB 45449-151
	G3/8	SR-3/8E	PB 45549-151

* other pressure ranges on request

Accessories

Description	Order No.
Gauge $\varnothing 40$, 0-10 bar, G1/8 *	KZ 8891
Mounting kit	PL 16965
Coupling kit	PL 16959

**PNEUMATIC
GROUP**

**ELECTRONICALLY CONTROLLED
PRESSURE REGULATING VALVE
(PROPORTIONAL PRESSURE REGULATING VALVE)**

airfit control



HOERBIGER
ORIGA

Description	Abb.	Port size	Recommended flow (l/min)*	Type	Data Sheet No.
airfit tecno Proportional pressure 0-10 V		G1/8	115 (Nominal flow)	PRE-U	5.96.002E
airfit tecno Proportional pressure 4-20 mA		G1/8	115 (Nominal flow)	PRE-I	5.96.002E
airfit control Proportional pressure 0-8 V		G1/4 G3/8 G1/2	550 (3000*) 850 (6000*) 1900 (6000*)	XRE 3-1/4 XRE 3-3/8 XRE 3-1/2	5.96.003E
airfit control Proportional pressure 0-16 mA		G1/4 G3/8 G1/2	550 (3000*) 850 (6000*) 1900 (6000*)	XRE 3-1/4 XRE 3-3/8 XRE 3-1/2	5.96.003E
airfit control Proportional pressure 0-10 V normally closed normally open		G1/4 G3/8	550 (2200*) 850 (2500*)	SRE-U-1/4 SRE-U-3/8	5.96.004E
airfit control Proportional pressure 4-20 mA		G1/4 G3/8	550 (2200*) 850 (2500*)	SRE-I-1/4 SRE-I-3/8	5.96.004E
airfit control Proportional pressure 0-20 mA		G1/4 G3/8	550 (2200*) 850 (2500*)	SRE-I-1/4 SRE-I-3/8	5.96.004E
airfit control Proportional pressure 0-10 V normally closed normally open		G3/8 G1/2	850 (4500*) 1900 (6000*)	CRE-U-3/8 CRE-U-1/2	5.96.005E
airfit control Proportional pressure 4-20 mA		G3/8 G1/2	850 (4500*) 1900 (6000*)	CRE-I-3/8 CRE-I-1/2	5.96.005E
airfit control Proportional pressure 0-20 mA		G3/8 G1/2	850 (4500*) 1900 (6000*)	CRE-I-3/8 CRE-I-1/2	5.96.005E

* Max. flow at $p_1 = 10$ bar to $p_2 = 6,3$ bar, $\Delta p = 1$ bar

A3P126E71EAA00X

The right to introduce technical modifications is reserved

Characteristics to VDI 3292		Pressures quoted as gauge pressure			
System			Diaphragm-pressure regulating valve pilot operated with piezo pilot and pneumatic and electronic feedback		
Type			PRE-		
Mounting			Flange		
Port size			NW 2.5 without base plate G1/8 with base plate		
Installation			In any position		
Weight (mass)		kg	0.145 without base plate 0.180 with base plate		
Flow direction			On: from 1 to 2 Out: from 2 to 3		
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	$^{\circ}\text{C}$ $^{\circ}\text{C}$	0 +50		
Medium			dried, filtered air (30 μ)		
Lubrication			No or only little oil mist lubrication (max. 30mg/m ³)		
Pneumatic Characteristics					
Inlet pressure range	$p_{1\min}$ $p_{1\max}$	bar bar	1.5 10		
Outlet pressure range	$p_{2\min}$ $p_{2\max}$	bar bar	0 ⁽¹⁾ 8	0 2	0 0.2
Nominal flow	Q_N	l/min	200		
Maximum flow ⁽³⁾	Q_N	l/min	350		
Hysteresis	Δp_2	%	<0.2	<0.2	<0.5
Repeatability	Δp_2	%	<0.2	<0.2	<0.5
Sensitivity	Δp_2	%	<0.1	<0.1	<0.5
Linearity	$p_{2\max}$	%	<0.5	<0.5	<1
Electrical Characteristics					
Nominal voltage	U_N	V DC	24 = $\pm 10\%$		
Nominal power	P_N	W	0.25		
Residual ripple		%	10		
Current consumption ⁽²⁾	$I_{B\max}$	mA	10		
Command signal input	W		Type: PRE-U	Type: PRE-I	
Version 0 – 8 bar			0 V \rightarrow 0 bar 8 V \rightarrow 8 bar	4 mA \rightarrow 0 bar 20 mA \rightarrow 8 bar	
Version 0 – 2 bar			0 V \rightarrow 0 bar 10 V \rightarrow 2 bar	4 mA \rightarrow 0 bar 20 mA \rightarrow 2 bar	
Version 0 – 0,2 bar			0 V \rightarrow 0 bar 10 V \rightarrow 0.2 bar	4 mA \rightarrow 0 bar 20 mA \rightarrow 0.2 bar	
Input resistance	R_E	k Ω Ω	61.5 550	0-10 V Version 4-20 mA Version	
Electrical protection		IP	IP52 to DIN 45322		
Connection			3-pole Plug M8 or to DIN 43650-1 C		

⁽¹⁾ other pressure ranges on request⁽²⁾ 0 – 10 V version⁽³⁾ at $p_1 = 10$ bar and $p_2 = 6.3$ bar, $\Delta p = 1$ bar

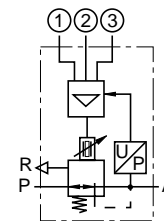
Pressure Regulating Valve

G1/8, NW 2.5

Electronically controlled (proportional pressure regulating valve with piezo pilot)

airfit *tecno*

PRE-



Versions

- Voltage controlled (Type PRE-U)
- Current controlled (Type PRE-I)
- 3 pressure ranges
- Option: actual value output
- Option: EMV-mass

Electronically controlled pressure regulating valve with actual value feed-back.

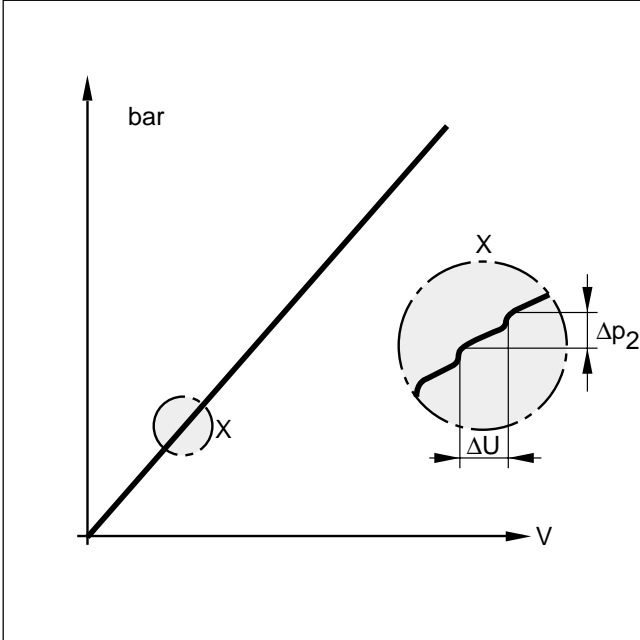
The unit is highly adaptable to prevailing operating conditions. Remote controlled.



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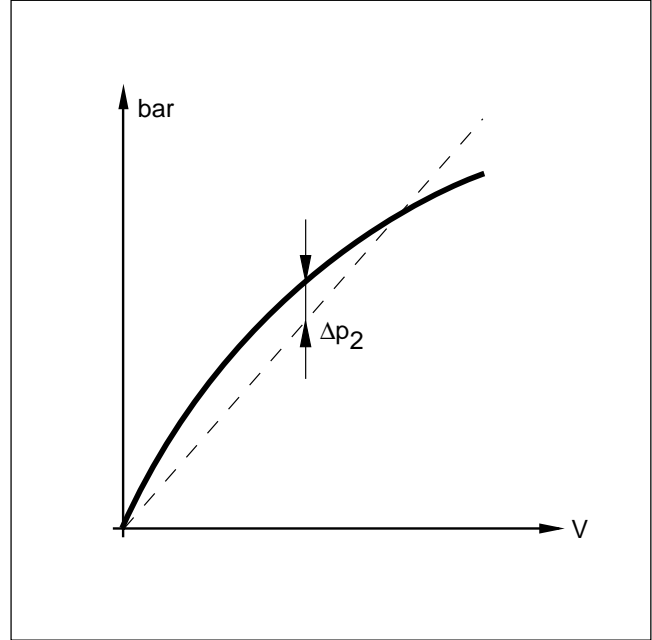
Sensitivity

The smallest change in the electronic input signal which leads to a change in actual output pressure is referred to as sensitivity. This is expressed as a percentage of maximum output pressure. For the Tecno this value is $<0.1\%$ to $<0.5\%$ depending on the version.



Linearity

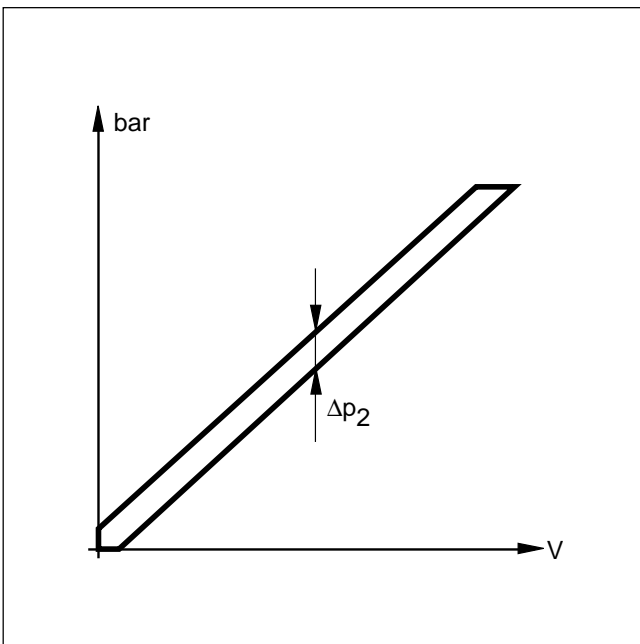
The ideal curve showing output pressure in relation to electronic signal would be a straight line. Linearity is the maximum deviation from the straight line, expressed as a percentage of maximum output pressure.



Hysteresis

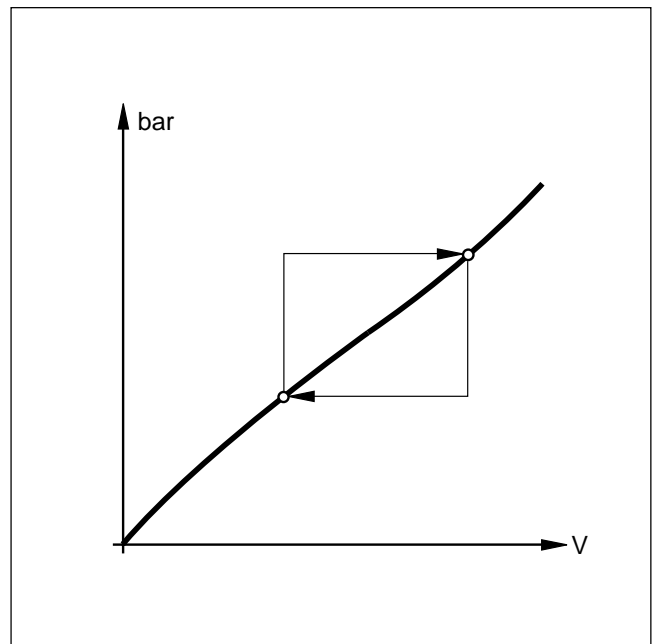
The same electronic signal generates slightly different actual output pressures, depending on whether the previous signal was higher or lower. This difference, known as hysteresis, is caused by friction and temporary deformation of elastic components.

The hysteresis of the electronically operated pressure regulating valve **AIRFIT tecno** from HOERBIGER is between $<0.2\%$ and $<0.5\%$ of the output pressure.

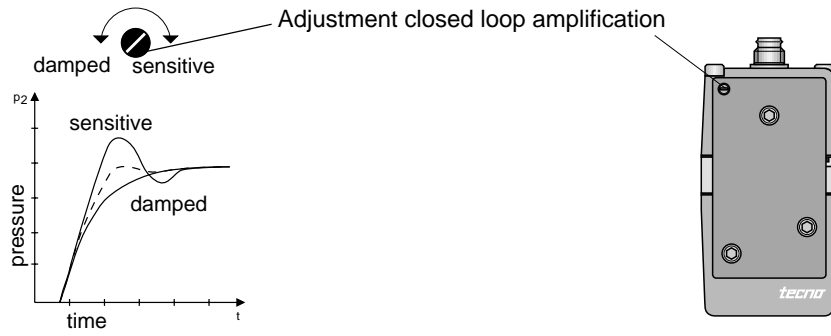


Repeatability

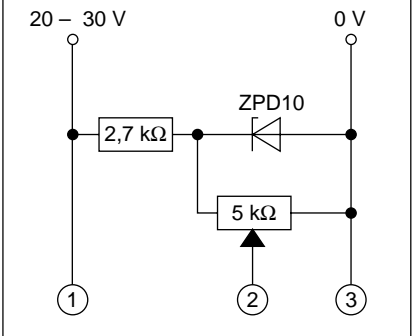
Control components, for a given set value, usually produce repeated actual values which differ less from each other than from the absolute set value, because the relatively large linearity deviation is excluded.



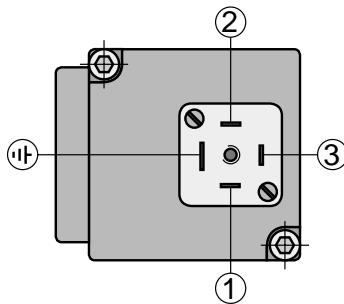
Adjustment



Examples of Connections – Voltage controlled 0-10 V



Connection Diagram for plug to 43650-1C



Voltage input 0-10 V Type PRE-U with actual value output

- 1 = Power supply 24 V DC
- 2 = Set value 0-10 V
- 3 = actual value output
1,25 V (0 bar output) –
6,25 V (p_{max} output)
- ⊥ GND

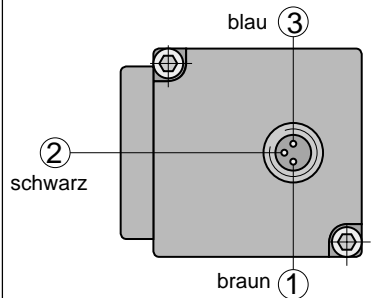
Voltage input 0-10 V Type PRE-U with EMV- mass

- 1 = Power supply 24 V DC
- 2 = Set value 0-10 V
- 3 = Mass 0 V DC
- ⊥ EMV-mass

Current input 4-20 mA Type PRE-I-I with EMV- mass

- 1 = None
- 2 = 4-20 mA, +
- 3 = 4-20 mA, –
- ⊥ EMV-mass

Connection Diagram for 3-pole plug

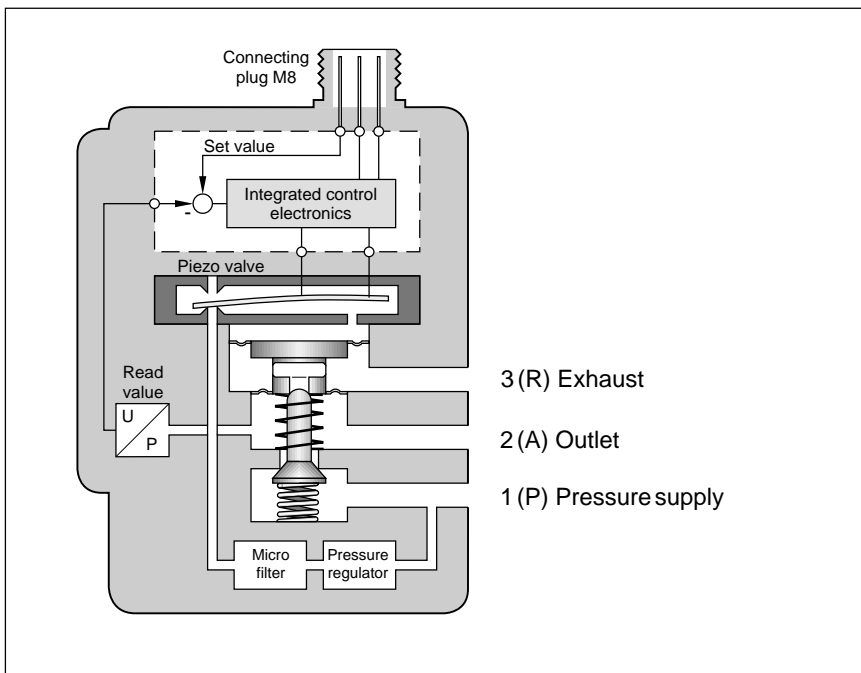


Voltage input 0-10 V Type PRE-U

- 1 = Power supply 24 V DC / 10 mA
- 2 = Set value 0-10 V
- 3 = Ground 0 V

Current input 4-20 mA Type PRE-I (two wire technology)

- 1 = None
- 2 = 4-20 mA, +
- 3 = 4-20 mA, –



How it Works

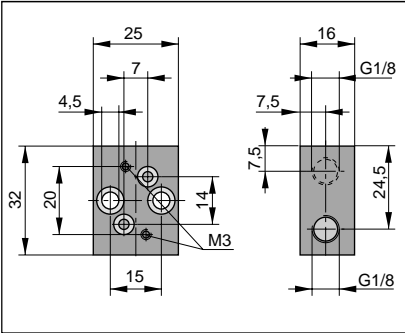
The actuating element in the **tecno valve** is not a solenoid system, as in conventional proportional pressure regulating valves, but a piezo valve – an encapsulated Piezo-ceramic element based on the jet-and- baffle principle.

The piezo valve makes use of the Piezo effect: the Piezo-ceramic element bends when a voltage is applied to it.

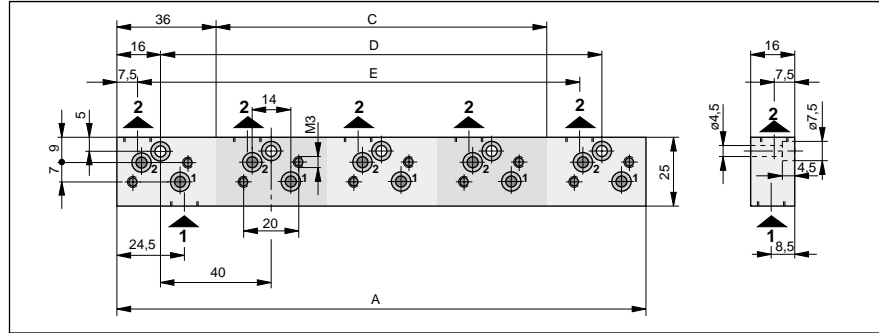
A built-in electronic control system applies variable voltage to the element, producing variable bending and therefore variable pressure on the diaphragm in the pilot chamber. Diaphragm movement is transferred to the main valve by a plunger acting against a spring.

The pressure thus produced at the valve outlet is compared via a sensor with the preset value and if necessary corrected by the electronic control system.

**Dimensions (mm)
Single Base Plate G1/8**



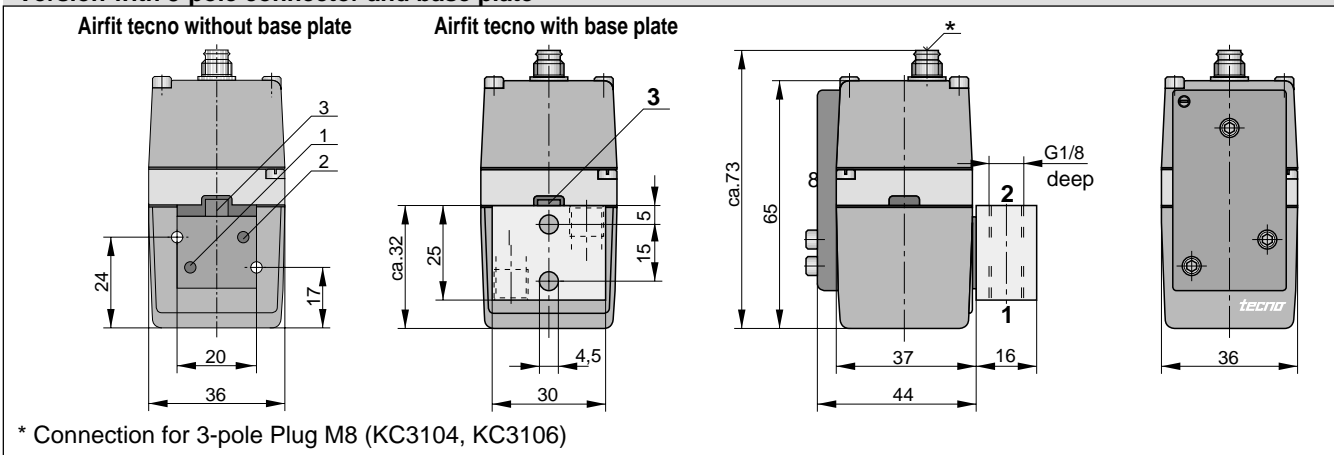
**Dimensions (mm)
Multiple Base Plate G1/8**



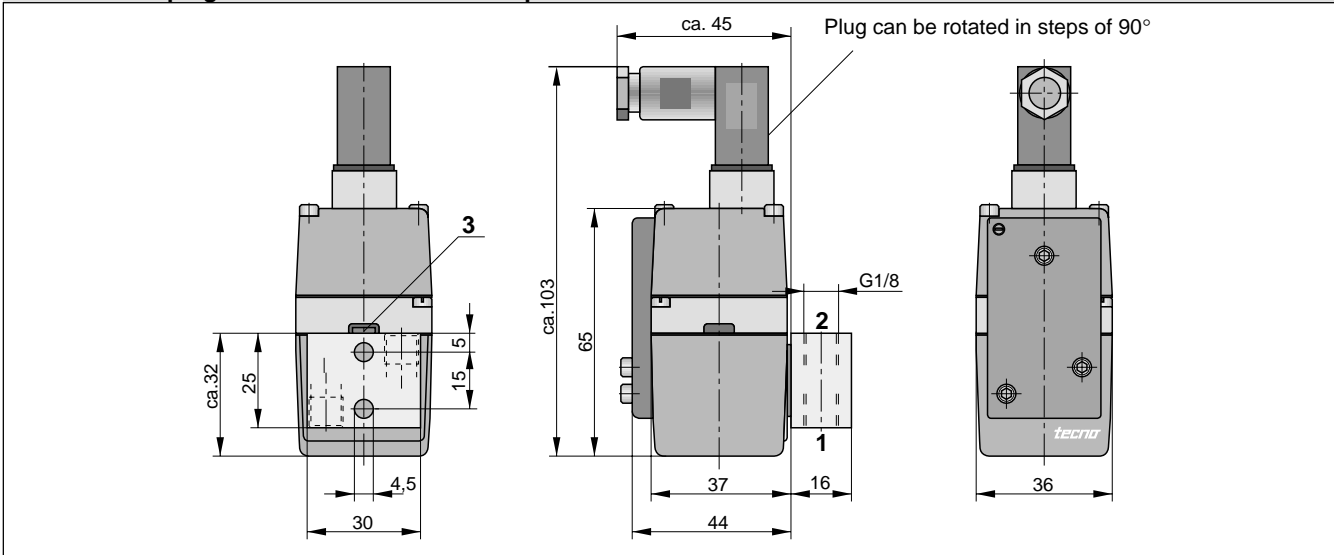
**Table of dimensions (mm) and Weight (mass)
Multiple Base Plate G1/8**

Number of valves	Dimensions (mm)				Weight (mass) (kg)
	A	C	D	E	
2	72	0	40	40	0,07
3	112	40	80	80	0,11
4	152	80	120	120	0,15
5	192	120	160	160	0,19
6	232	160	200	200	0,23

**Dimensions (mm)
Version with 3-pole connector and base plate**



**Dimensions (mm)
Version with plug to DIN 43650-1C and base plate**



Order Instructions

Version	Order instructions	
	Type	Order No.
Sets, complete, (0-8 bar) consisting of		
Prop.-Pressure Regulating Valve, 0 – 10 V Base Plate G1/8, Cable Set straight (2m)	PRE-U-01	PS11140-B-01
Prop.-Pressure Regulating Valve, 0 – 10 V Base Plate G1/8, Cable Set bended (2m)	PRE-U-01	PS11150-B-01
Prop.-Pressure Regulating Valve, 4 – 20 mA Base Plate G1/8, Cable Set straight (2m)	PRE-I-01	PS11141-B-01
Prop.-Pressure Regulating Valve, 4 – 20 mA Base Plate G1/8, Cable Set bended (2m)	PRE-I-01	PS11151-B-01

Prop.-Pressure Regulating Valve NW 2.5 (without accessories)		
Prop.-Pressure Regulating Valve, 0 – 10 V, 0 – 8 bar	PRE-U	PS11110-B
Prop.-Pressure Regulating Valve, 4 – 20 mA, 0 – 8 bar	PRE-I	PS11111-B
Prop.-Pressure Regulating Valve, 0 – 10 V, 0 – 2 bar	PRE-U	PS11130-B-20
Prop.-Pressure Regulating Valve, 4 – 20 mA, 0 – 2 bar	PRE-I	PS11139-B-20
Prop.-Pressure Regulating Valve, 0 – 10 V, 0 – 200 mbar	PRE-U	PS11130-B-02
Prop.-Pressure Regulating Valve, 4 – 20 mA, 0 – 200 mbar	PRE-I	PS11139-B-02

Accessories		
Single Base Plate G1/8		PS11112-A-01
Multiple Base Plate G1/8 for 6 valves max.		PS11112-A-..**
Cable Set straight (5 m)		KC3104
Cable Set bended (5 m)		KC3106

Prop.-Pressure Regulating Valve NW 2.5 with actual value output and plug to DIN 43650-1C (single units without accessories) *		
Prop.-Pressure Regulating Valve, 0 – 8 V, 0 – 8 bar, Actual Value Output 1.25 V (0 bar) – 6.25 V (8 bar)	PRE-U	PS11113-B
Prop.-Pressure Regulating Valve, 0 – 10 V, 0 – 2 bar, Actual Value Output 1.25 V (0 bar) – 6,25 V (2 bar)	PRE-U	PS11162-B-20
Prop.-Pressure Regulating Valve, 0 – 10 V, 0 – 0.2 bar, Actual Value Output 1.25 V (0 bar) – 6.25 V (0.2 bar)	PRE-U	PS11162-B-02

Prop.-Pressure Regulating Valve NW 2.5 with EMV-mass and plug to DIN 43650-1C (single units without accessories) *		
Prop.-Pressure Regulating Valve, 0 – 10 V, 0 – 8 bar	PRE-U	PS11164-B
Prop.-Pressure Regulating Valve, 0 – 10 V, 0 – 2 bar	PRE-U	PS11165-B-20
Prop.-Pressure Regulating Valve, 0 – 10 V, 0 – 0.2 bar	PRE-U	PS11165-B-02
Prop.-Pressure Regulating Valve, 4 – 20 mbar, 0 – 8 bar	PRE-I	PS11168-B
Prop.-Pressure Regulating Valve, 4 – 20 mbar, 0 – 2 bar	PRE-I	PS11169-B-20
Prop.-Pressure Regulating Valve, 4 – 20 mbar, 0 – 0.2 bar	PRE-I	PS11169-B-02

*Cable KC3104, KC3106 is not required

** Number of valves (max. 6) – Order example: PS11112-A-06

Characteristics to VDI 3292		Pressures quoted as gauge pressure			
System			Piston-type pressure regulating valve pilot operated with pneumatic and electronic feedback		
Type			XRE 3-1/4 XRES 3-1/4	XRE 3-3/8 XRES 3-3/8	XRE 3-1/2 XRES3-1/2
Port size			G1/4	G3/8	G1/2
Installation			Vertical		
Weight (mass)		kg	1.25 (XRES 1.4)		
Medium and ambient temperatures	ϑ_{\min} ϑ_{\max}	$^{\circ}\text{C}$ $^{\circ}\text{C}$	0 +40		
Medium			Filtered, lubricated or oil-free compressed air		
Lubrication			Nitrile rubber compatible oil mist lubrication		
Pneumatic Characteristic					
Nominal pressure	p_n	bar	6.3		
Inlet pressure range	$p_{1\min}$ $p_{1\max}$	bar bar	0.5 16		
Outlet pressure range	$p_{2\min}$ $p_{2\max}$	bar bar	0.5 10		
Nominal flow*	Q_N	l/min m ³ /h	3000 180	6000 360	6000 360
Recommended flow**	Q	l/min m ³ /h	550 33	850 51	1900 114
Hysteresis**	$p_{2\max}$	%	<0.5		
Repeatability***	$p_{2\max}$	%	<0.5		
Sensitivity***	$p_{2\max}$	%	<0.5		
Linearity***	$p_{2\max}$	%	<1		
Electrical Characteristic					
Nominal Voltage	U_N	V DC	24 V = ± 10 %		
Residual ripple		%	10		
Power consumption	$I_{B\max}$	A	0.4 (depending on initial pressure)		
Set value input	U_W	V	0 to 10 (1 V / 1 bar) (and 0-20 mA)****		
Input resistance	R_E	k Ω	200		
Actual value output	U_X	V	0-8 (1 V/bar)		
Output current	$I_{A\max}$	mA	20		
Reference output	U_R	V	10 (fix)		
Output current	$I_{R\max}$	mA	20		
Electrical protection		IP	IP65 to DIN 40050, EN 60529		

* at $p_1 = 10\text{bar}$ and $p_2 = 6.3\text{bar}$, $\Delta p = 1\text{bar}$

** at 6.3 bar and 25 m/s

*** see explanation on page 2

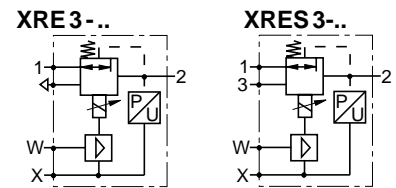
**** by installation of a 500 Ω and the respective adjusting

Pressure Regulating Valve

G1/4-G1/2

Electronically controlled
(proportional pressure
regulating valve)

airfit control



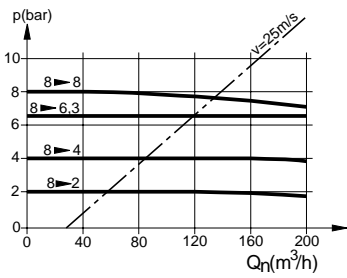
Electronically controlled pressure regulating valve with actual value feedback. The unit is highly adaptable to prevailing operating conditions. Remot controlled.

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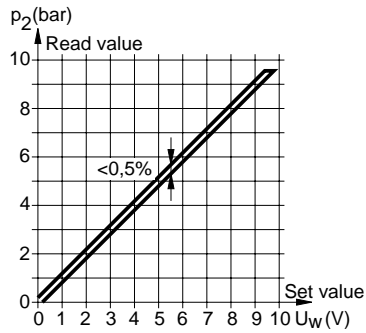
For further information see brochure A3P117E
For table of contents see 5.00.001E

Data Sheet No. 5.96.003E-1

Flow Characteristics Type: XRE 3-1/2

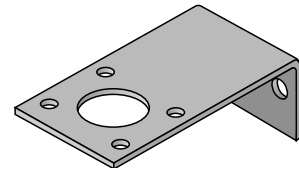


Output Pressure as Function of Input Voltage



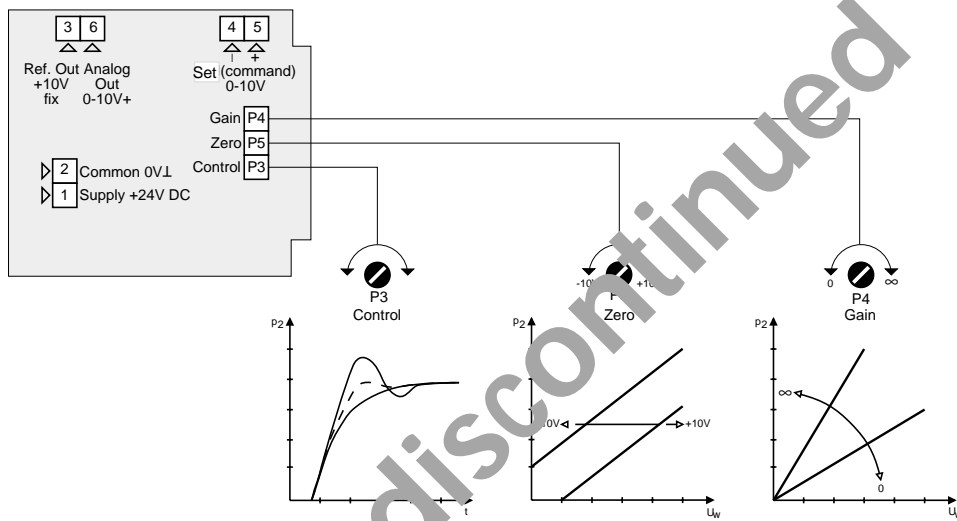
Accessories

Mounting kit, consisting of mounting bracket and 4 mounting screws



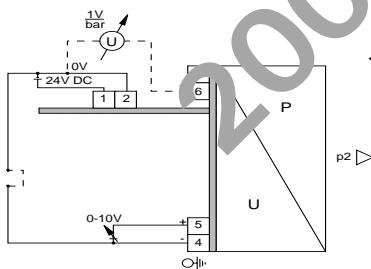
Order No.: PL 16247

Connection Diagram



Control Options

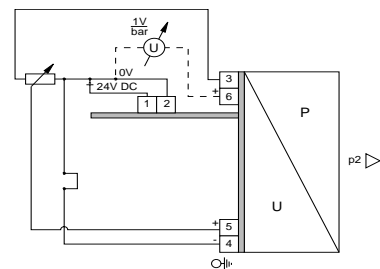
Analog voltage



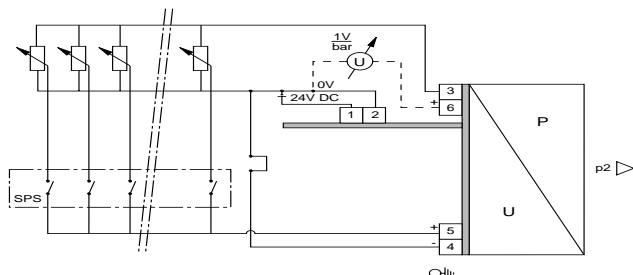
The negative pole of the set value need not, but can, have the zero potential of the power supply

The resistance of the potentiometer should range between 500Ω and 100 kΩ

with a single potentiometer



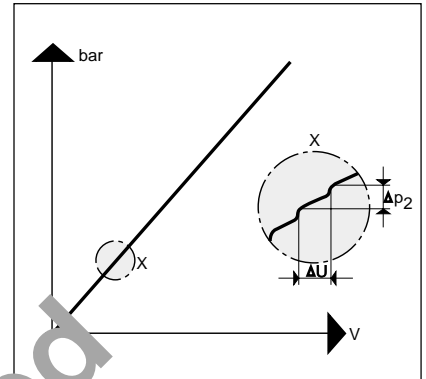
SPS in connection with several potentiometers



The total resistance of the potentiometer series should not be less than 500Ω

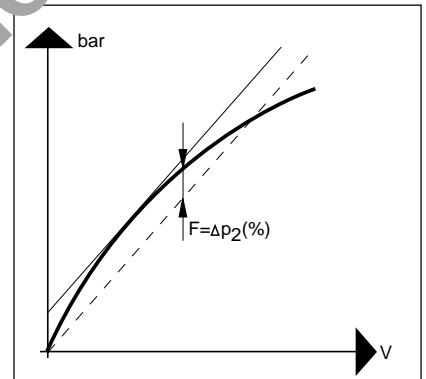
Sensitivity

The smallest deviation from set output pressure which leads to a change in actual output pressure is referred to as sensitivity and this is expressed as a percentage of maximum output pressure. Sensitivity of the XRE II valve is below 0.5%, which allows output pressure to be set very precisely.



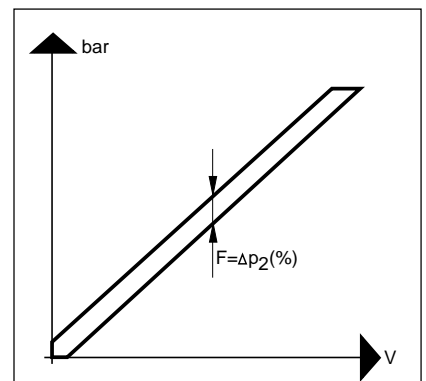
Linearity

The ideal curve showing output pressure in relation to electronic signal would be a straight line. Linearity is the maximum deviation from the straight line, expressed as a percentage of maximum output pressure, and is below 1% for the XRE II valve.



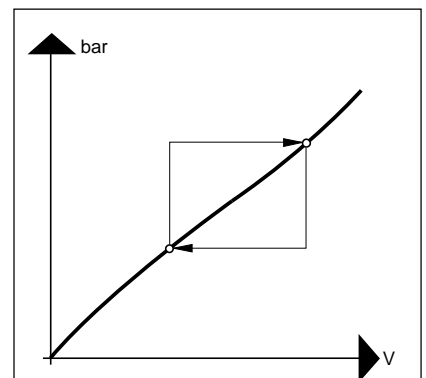
Hysteresis

The same set output pressure generates slightly different actual output pressures, depending on whether the previous setting was higher or lower. This difference, known as hysteresis, is caused by friction and temporary deformation of elastic components. The hysteresis of the XRE II valve is below 0.05 bar.



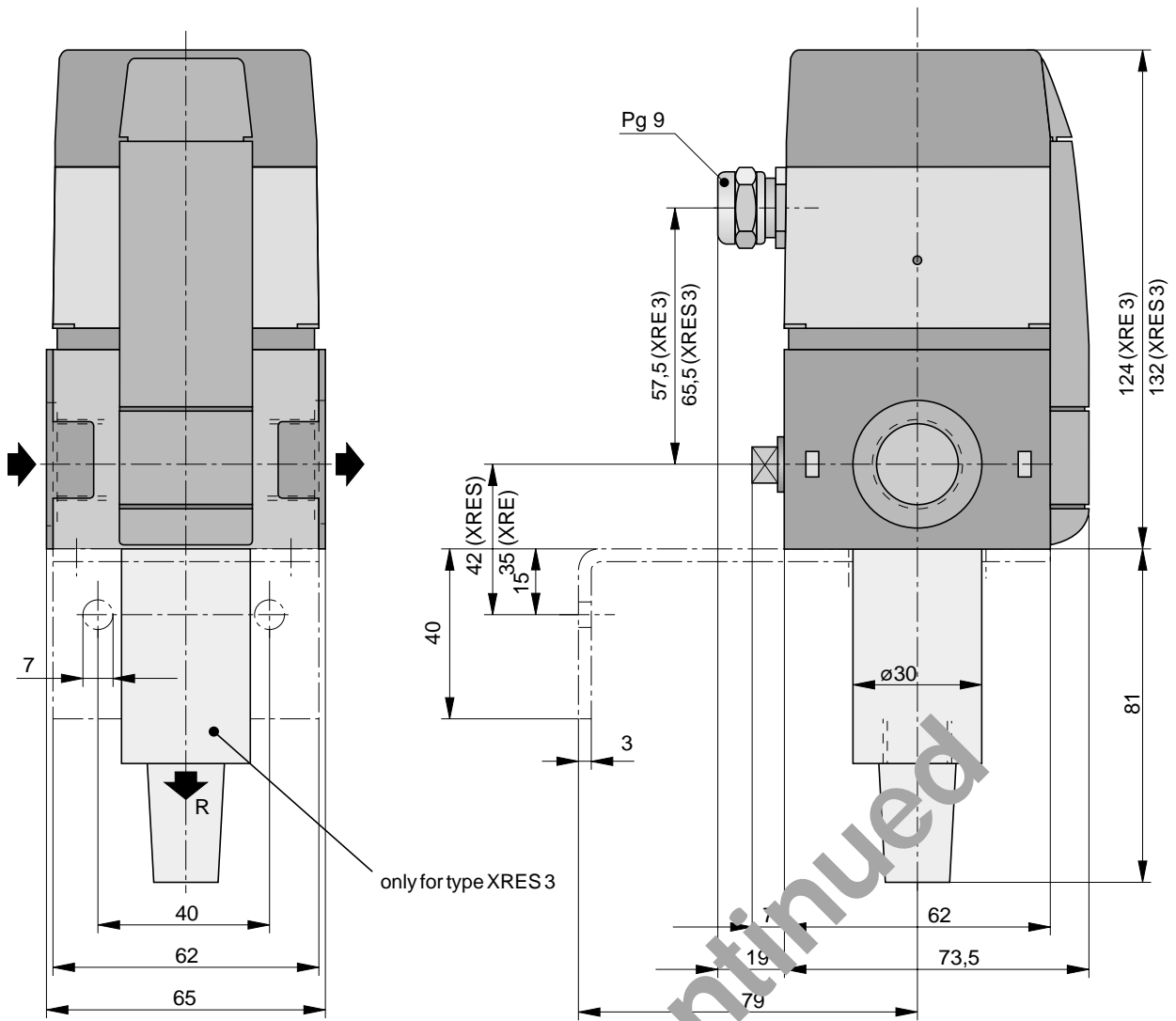
Repeatability

Control components, for a given set value, usually produce repeated actual values which differ less from each other than from the absolute set value, because the relatively large linearity deviation is excluded. Repeatability is improved if hysteresis is minimised.



Dimensions (mm)

Type: XRE 3/XRES 3



Order Instructions

Basic model

Type	Port size	max. output pressure (bar)	Order No.
XRE 3-1/4	G1/4	8	PB 51049-310
XRE 3-3/8	G3/8	8	PB 51149-310
XRE 3-1/2	G1/2	8	PB 51249-310

Versions for control 0-16 mA

XRE 3-1/4	G1/4	8	PB 51049-320
XRE 3-3/8	G3/8	8	PB 51149-320
XRE 3-1/2	G1/2	8	PB 51249-320

Versions for fast pressure relief

XRES 3-1/4	G1/4	8	PB 51049-400
XRES 3-3/8	G3/8	8	PB 51149-400
XRES 3-1/2	G1/2	8	PB 51249-400

Accessories

Mounting kit			PL 16247-11
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A1P617D00AZ00X

The right to introduce technical modifications is reserved

Characteristics to VDI 3292			Pressures quoted as gauge pressures	
System			Piston-type pressure regulating valve, pilot operated, with pneumatic and electric feedback	
Type			SRE-1/4	SRE-3/8
Port size			G1/4	G3/8
Installation			In any position	
Weight (mass)		kg	0,6	
Medium and ambient temperature	ϑ_{\min} ϑ_{\max}	°C °C	0 +50	
Medium			Filtered, lubricated or oil-free compressed air	
Lubrication			Not required	
Pneumatic Characteristics				
Nominal pressure	p_n	bar	6,3	
Inlet pressure range	$p_{1\min}$	bar	0	
	$p_{1\max}$	bar	10	
Outlet pressure range	$p_{2\min}$	bar	0	
	$p_{2\max}$	bar	10	
Nominal flow*	Q_N	l/min	2200	2500
		m ³ /h	132	150
Recommended flow**	Q	l/min	550	850
		m ³ /h	33	51
Hysteresis**	$p_{2\max}$	%	<1	
Repeatability***	$p_{2\max}$	%	<0,5	
Sensitivity***	$p_{2\max}$	%	<0,5	
Linearity***	$p_{2\max}$	%	<1	
Electrical Characteristics				
Nominal voltage	U_N	V DC	24 V ± 10 %	
Residual ripple		%	10	
Power consumption	$I_{B\max}$	A	0,15	
Set value input	U_W	V	0 – 10	
	I	mA	0 – 20, 4 – 20	
Input resistance	R_E	kΩ	200	
Actual value output	U_X	V	0 – 10	
Output current	$I_{A\max}$	mA	20	
Electrical protection		IP	IP65 to DIN 40050, EN 60529	

* at $p_1 = 10$ bar to $p_2 = 6,3$ bar

** at 6,3 bar and 25 m/s

*** see explanation on page 2

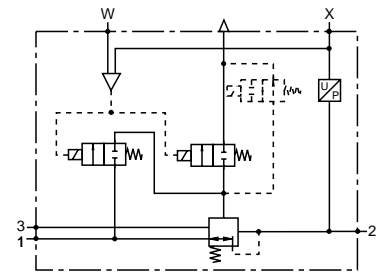
Pressure Regulating Valve

G1/4-G3/8

Electronically controlled
(proportional pressure regulating valve)

airfit control

SRE-..



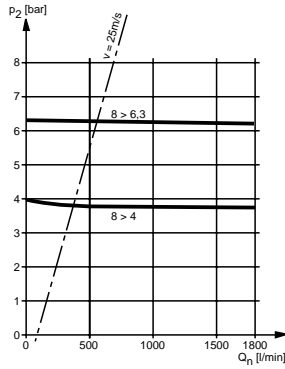
- Electronically controlled pressure regulating valve
- Remote controlled
- Control- and operating pressure from 0 bar
- Airfit design
- Direct coupling with airfit swing units
- No air consumption

HOERBIGER
ORIGA

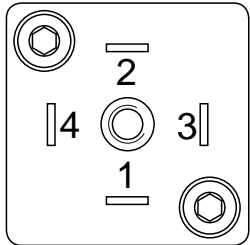
For table of contents see 5.96.001E

Data Sheet 5.96.004E-1

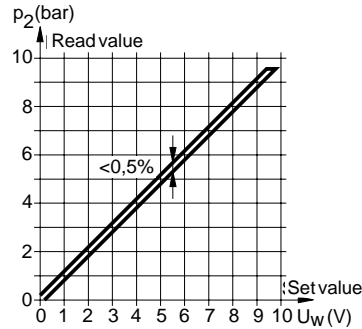
Flow Characteristics Type: SRE-1/4



Connection Diagram



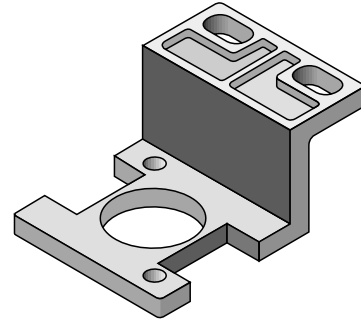
Output Pressure as Function of Input Voltage



- Pin 1: Power supply
Plus +24 V DC \pm 10%
0,15 A
Residual ripple 10%
- Pin 2: Power supply 0 V
Reference and mass
capacity for set- and
actual value
- Pin 3: Set value input
Positive set value
voltage (0-20 mA,
4-20 mA), 0 – 10 V
- Pin 4: Analog actual value
output. 0 – 10 V for units
with 10 bar output
pressure.
This output has a max.
capacity of 20 mA. The
signal voltage is
compared to the
reference capacity (pin 2)

Accessories

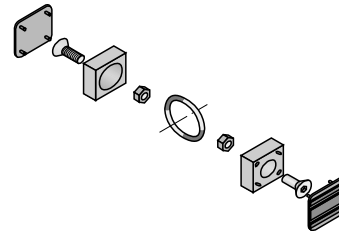
Mounting kit



Order no.: PL 16965

Accessories

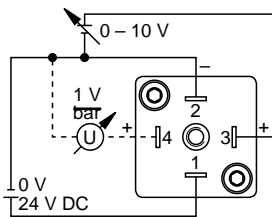
Coupling kit



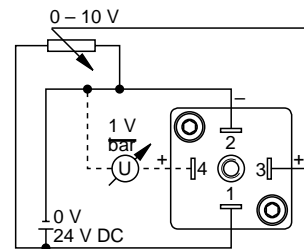
Order No.: PL 16959

Control Options

Analog voltage

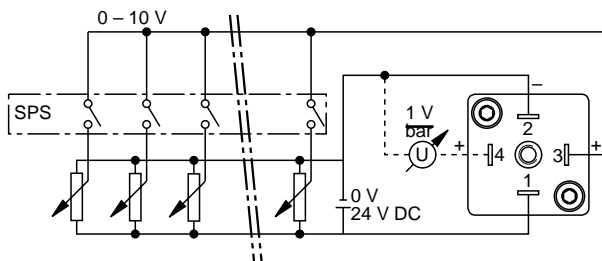


with a single potentiometer



The resistance of the potentiometer should range between 500 Ω and 100 k Ω .

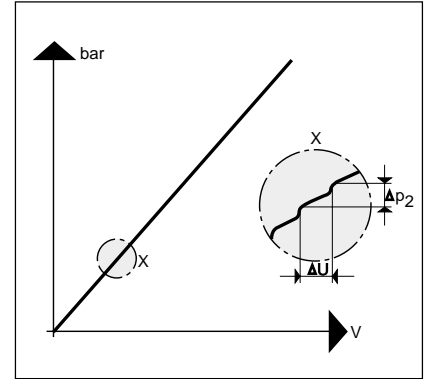
PLC in connection with several potentiometers



The total resistance of the potentiometer series should not be less than 500 Ω .

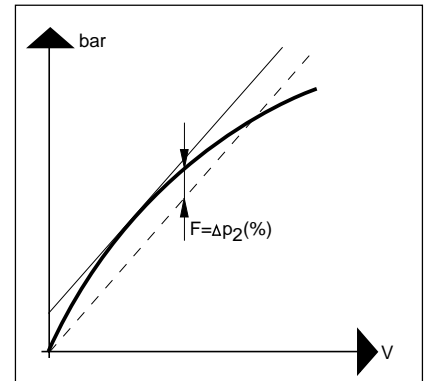
Sensitivity

The smallest deviation from set output pressure which leads to a change in actual output pressure is referred to as sensitivity and this is expressed as a percentage of maximum output pressure. Sensitivity of the XRE II valve is below 0.5%, which allows output pressure to be set very precisely.



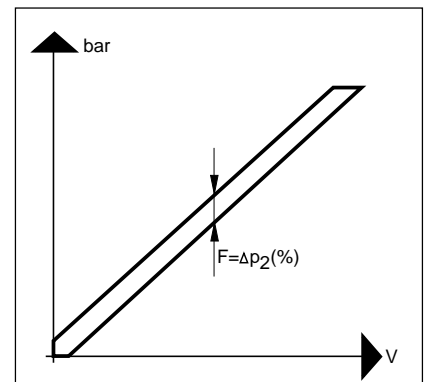
Linearity

The ideal curve showing output pressure in relation to electronic signal would be a straight (linear) line (see dotted line), to predict exactly which pressure can be expected at a given voltage. The deviation can be calculated from the maximal deviation from the straight line, in relation to the highest possible pressure.



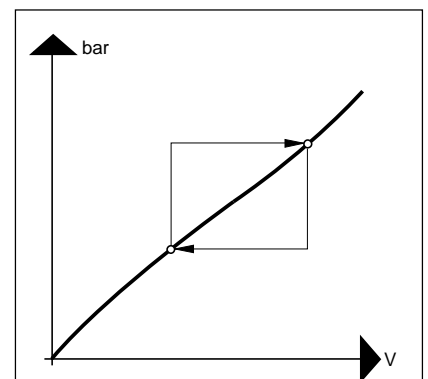
Hysteresis

The same set output pressure generates slightly different actual output pressures, depending on whether the previous setting was higher or lower. This difference, known as hysteresis, is caused by friction and temporary deformation of elastic components. The hysteresis of the SRE valve is below 0.1 bar.



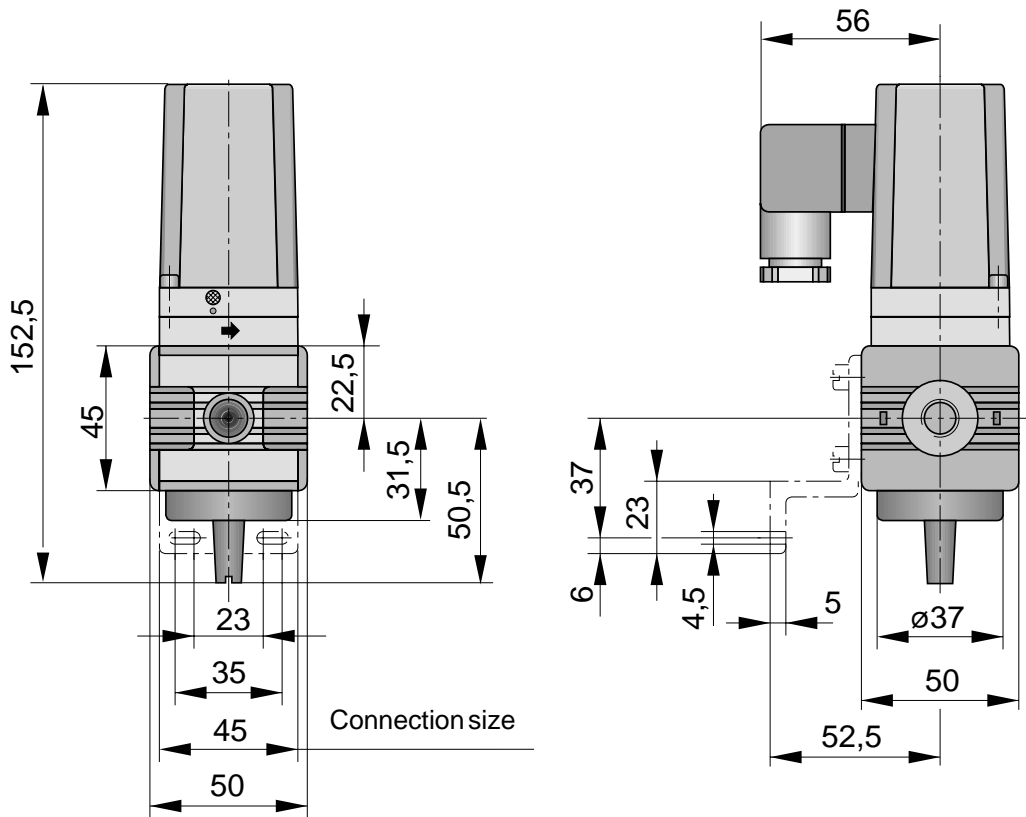
Repeatability

Control components, for a given set value, usually produce repeated actual values which differ less from each other than from the absolute set value, because the relatively large linearity deviation is excluded. Repeatability is improved if hysteresis is minimised.



Dimensions (mm)

Type: SRE-1/4



Order Instructions

Basic model for control 0–10 V, NG (normally closed)

Port size	max. output pressure (bar)	Type	Order No.
G1/4	10	SRE-U-1/4 NG	PB 59849-000
G3/8	10	SRE-U-3/8 NG	PB 59949-000

Version for control 4–20 mA

G1/4	10	SRE-I-1/4 NG	PB 59849-002
G3/8	10	SRE-I-3/8 NG	PB 59949-002

Version for control 0–20 mA

G1/4	10	SRE-I-1/4 NG	PB 59849-001
G3/8	10	SRE-I-3/8 NG	PB 59949-001

Version for control 0–10 V, NO (normally open)

G1/4	10	SRE-U-1/4 NO	PB 59849-010
G3/8	10	SRE-U-3/8 NO	PB 59949-010

Accessories

Mounting kit	PL 16965
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Characteristics to VDI 3292		Pressures quoted as gauge pressures	
System		Piston-type pressure regulating valve, pilot operated, with pneumatic and electric feedback	
Type		CRE-3/8	CRE-1/2
Port size		G3/8	G1/2
Installation		In any position	
Weight (mass)		kg	0,95
Medium and ambient temperature	ϑ_{\min} ϑ_{\max}	°C °C	0 +50
Medium		Filtered, lubricated or oil-free compressed air	
Lubrication		Not required	
Pneumatic Characteristics			
Nominal pressure	p_n	bar	6,3
Inlet pressure range ¹⁾	$p_{1\min}$	bar	0
	$p_{1\max}$	bar	16
Outlet pressure range	$p_{2\min}$	bar	0
	$p_{2\max}$	bar	10
Nominal flow ²⁾	Q_N	l/min	4500
		m ³ /h	270
Recommended flow ³⁾	Q	l/min	850
		m ³ /h	51
Hysteresis ⁴⁾	$p_{2\max}$	%	<1
Repeatability ⁴⁾	$p_{2\max}$	%	<0,5
Sensitivity ⁴⁾	$p_{2\max}$	%	<0,5
Linearity ⁴⁾	$p_{2\max}$	%	<1
Electrical Characteristics			
Nominal voltage	U_N	V DC	24 V = ± 10 %
Residual ripple		%	10
Power consumption	$I_{B\max}$	A	0,15
Set value input	U_W I	V	0 – 10 (1V = 1bar)
		mA	0 – 20, 4 – 20
Input resistance	R_E	kΩ	200
Actual value output	U_X	V	0 – 10
Output current	$I_{A\max}$	mA	20
Electrical protection		IP	IP 65 acc. DIN 40050, EN 60529

1) $P_1 \geq P_2 + 10 \% P_2$ 2) at $p_1 = 10 \text{ bar}$ to $p_2 = 6,3 \text{ bar}$

3) at 6,3 bar and 25 m/s

4) see explanation on page 3

Pressure Regulating Valve

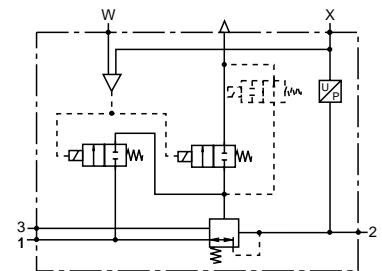
G3/8-G1/2

Electronically controlled
(proportional pressure regulating valve)

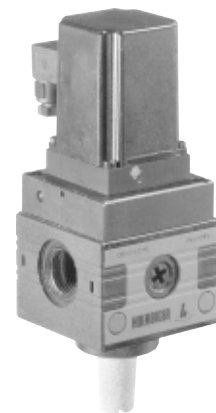
airfitcontrol

- to series AIRFIT comfort

CRE-..



- Electronically controlled pressure regulating valve
- remote controlled
- Control- and operating pressure from 0 bar
- Airfit design
- Version with NPTF-thread
- no air consumption

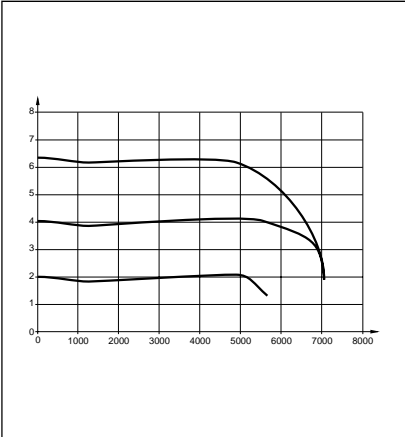


HOERBIGER
ORIGA

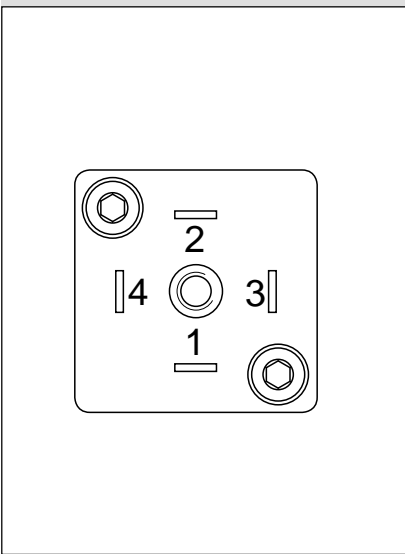
For table of contents see 5.96.001E

Data Sheet 5.96.005E-1

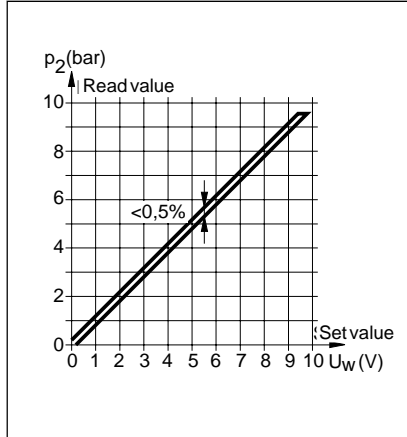
Flow Characteristics
Type: CRE-1/2



Connection Diagram



Output Pressure as Function of Input Voltage



- Pin 1: Power supply
Plus +24 V DC \pm 10%
0,15 A
Residual ripple 10%
- Pin 2: Power supply 0 V
Reference and mass
capacity for set- and
actual value
- Pin 3: Set value input
Positive set value
voltage of 0 – 10 V
- Pin 4: Analog actual value
output. 0 – 10 V for units
with 10 bar output
pressure.
This output has a max.
capacity of 20 mA. The
signal voltage is
compared to the
reference capacity
(pin 2)

Accessories

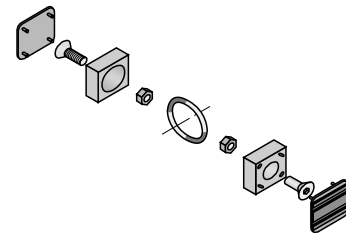
Mounting kit



Order no.: PL 17518

Accessories

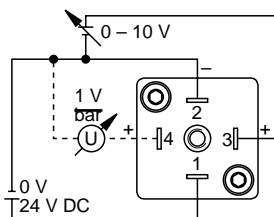
Coupling kit



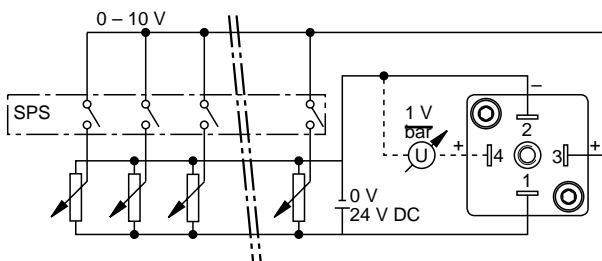
Order No.: PL 17608

Control Options

Analog voltage

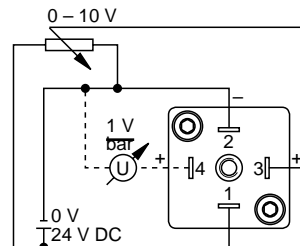


PLC in connection with several potentiometers



The total resistance of the potentiometer series should not be less than 500 Ω .

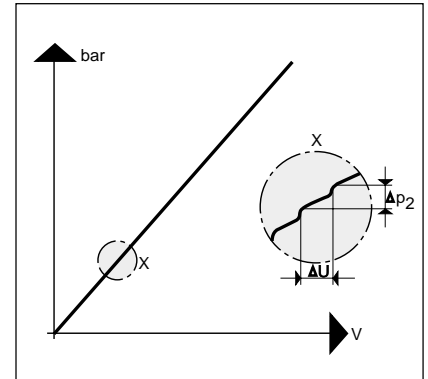
with a single potentiometer



The resistance of the potentiometer should range between 500 Ω and 100 k Ω .

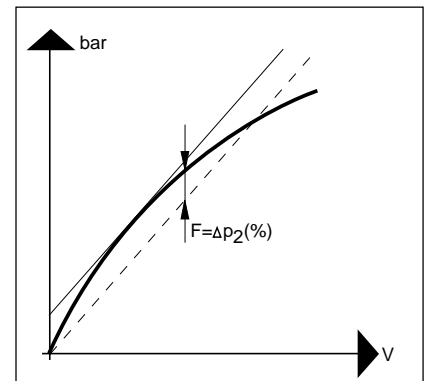
Sensitivity

The smallest deviation from set output pressure which leads to a change in actual output pressure is referred to as sensitivity and this is expressed as a percentage of maximum output pressure. Sensitivity of the CRE valve is below 0.5%, which allows output pressure to be set very precisely.



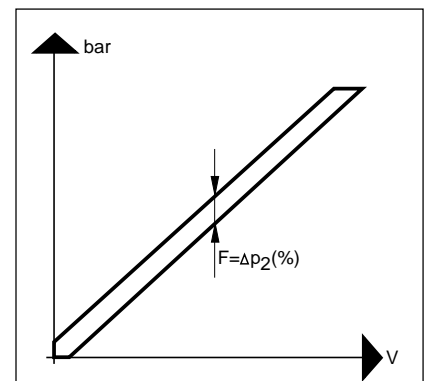
Linearity

The ideal curve showing output pressure in relation to electronic signal would be a straight (linear) line (see dotted line), to predict exactly which pressure can be expected at a given voltage. The deviation can be calculated from the maximal deviation from the straight line, in relation to the highest possible pressure.



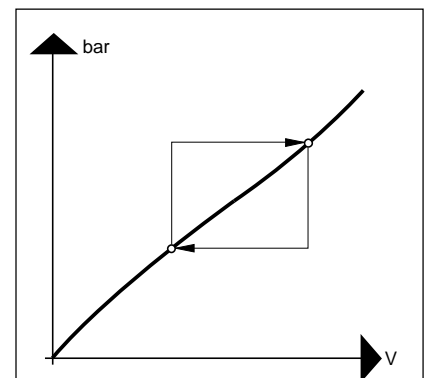
Hysteresis

The same set output pressure generates slightly different actual output pressures, depending on whether the previous setting was higher or lower. This difference, known as hysteresis, is caused by friction and temporary deformation of elastic components. The hysteresis of the CRE valve is below 0.1 bar.



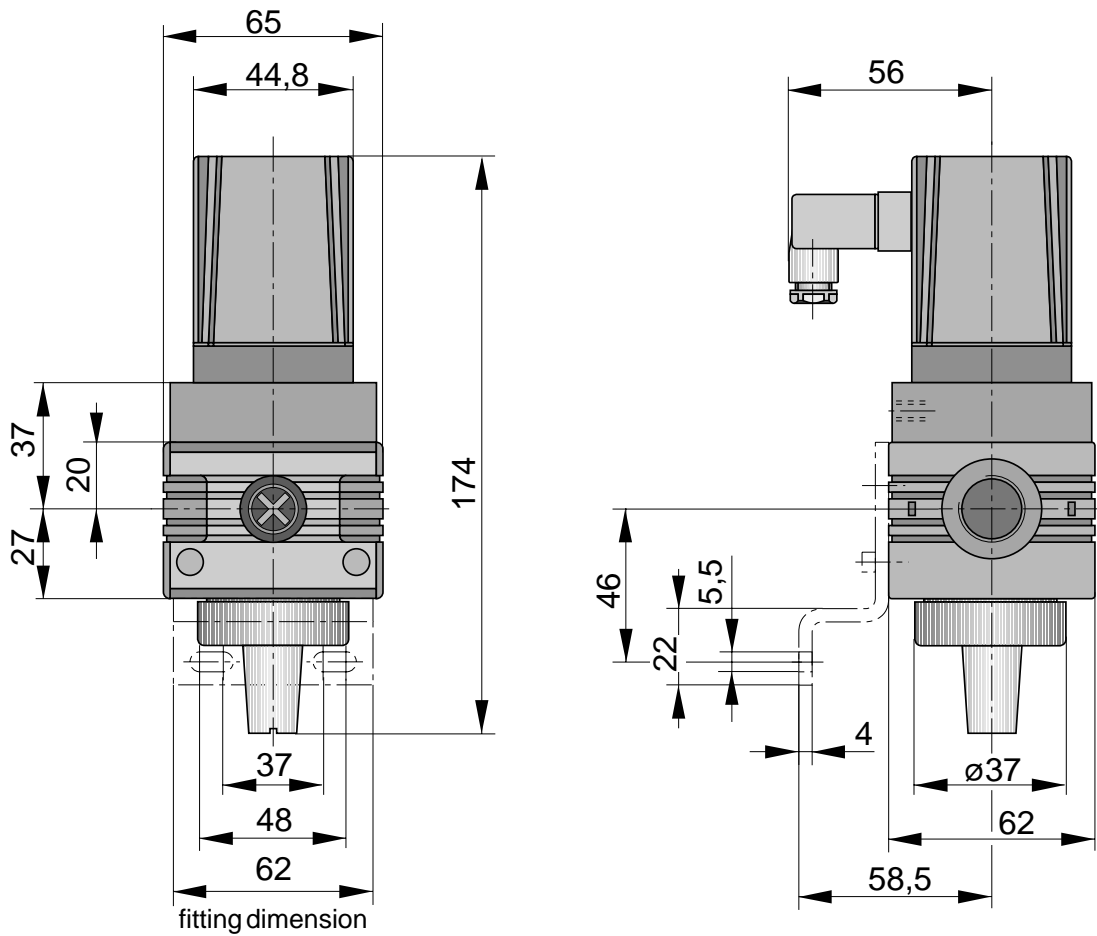
Repeatability

Control components, for a given set value, usually produce repeated actual values which differ less from each other than from the absolute set value, because the relatively large linearity deviation is excluded. Repeatability is improved if hysteresis is minimised.



Dimensions (mm)

Type: CRE-1/2



Order Instructions

Basic model for control 0–10 V, NG (normally closed)

Port size	max. output pressure (bar)	Type	Order No.
G3/8	10	CRE-U-3/8 NG	PB 60149-000
G1/2	10	CRE-U-1/2 NG	PB 60249-000

Version for control 4–20 mA

G3/8	10	CRE-I-3/8 NG	PB 60149-002
G1/2	10	CRE-I-1/2 NG	PB 60249-002

Version for control 0–20 mA

G3/8	10	CRE-I-3/8 NG	PB 60149-001
G1/2	10	CRE-I-1/2 NG	PB 60249-001

Version for control 0–10 V, NO (normally open)

G3/8	10	CRE-U-3/8 NO	PB 60149-010
G1/2	10	CRE-U-1/2 NO	PB 60249-010

Accessories

Mounting kit	PL 17518
Coupling kit	PL 17608