



Air Preparation & Airline Accessories



Nano Mist

Simple. Convincing in the Details

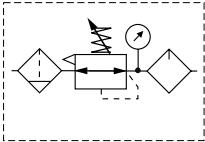
*There are innovations that bring selective improvements.
And then there are real innovations.
Innovations that set **new** standards.
Like the **new Parker Moduflex Lite** series.*



The Moduflex Lite FRL system is constructed from ultra light weight technopolymers instead of the traditional aluminium or zinc die cast, this means that is up to 45% lighter than conventional units. This non-metal construction also means that the Moduflex Lite is corrosion free enabling it to be used in harsh industrial environments where anti freeze or aggressive synthetic oils are present.

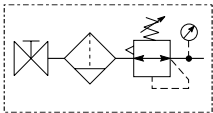
The use of technopolymers in the design of Moduflex Lite has facilitated a universal body design, this has resulted in reducing the number of variants required to cover the full spectrum of applications. This can dramatically lower logistic costs and simplify stock holding for customers making the Moduflex Lite a very cost effective solution.

Popular Combinations



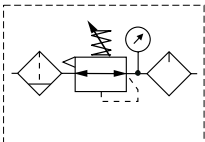
Slide Valve + Filter/Regulator + Lubricator Combinations (50mg/m³)
5 micron element, 8 bar Regulator + Gauge and Wall Mounting Brackets

Port size	Combined Manual/Semi-Auto Drain	Flow dm ³ /s	Weight (g)	Auto Drain	Flow dm ³ /s	Weight (g)
G ¹ / ₂	P3XAA14GECNGPNW	76	1300	P3XAA14GEANGPNW	76	1300
G ³ / ₄	P3XAA16GECNGPNW	77	1300	P3XAA16GEANGPNW	77	1300



Slide Valve + Filter/Regulator Combinations
5 micron element, 8 bar Regulator + Gauge and Wall Mounting Brackets

Port size	Combined Manual/Semi-Auto Drain	Flow dm ³ /s	Weight (g)	Auto Drain	Flow dm ³ /s	Weight (g)
G ¹ / ₂	P3XAN14GECNGW	105	950	P3XAN14GEANGW	105	950
G ³ / ₄	P3XAN16GECNGW	106	950	P3XAN16GEANGW	106	950



Filter/Regulator + Lubricator Combinations (50mg/m³)
5 micron element, 8 bar Regulator + Gauge and Wall Mounting Brackets

Port size	Combined Manual/Semi-Auto Drain	Flow dm ³ /s	Weight (g)	Auto Drain	Flow dm ³ /s	Weight (g)
G ¹ / ₂	P3XCA14GECNGPNW	76	1000	P3XCA14GEANGPNW	76	1000
G ³ / ₄	P3XCA16GECNGPNW	77	1000	P3XCA16GEANGPNW	77	1000

Options: 16 bar pressure available on request.

- Integral 1/2 or 3/4 ports
- High efficiency 5 micron element as standard
- Excellent water removal efficiency
- Secondary pressure ranges 8 and 16 bar
- Rolling diaphragm for extended life
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation.



Operating information		Flow characteristics		
Working pressure:	Max 16 bar	Flow dm ³ /s	1/2	3/4
Working temperature:	-10 °C to +60 °C	Filter	55	57
		Coalescing Filter	24	24
		Adsorber Filter	18	18
		Regulator	122	134
		Filter Regulator	111	113
		Lubricator	78	78

Filters - 5 micron element

Port size	Description	Order Code
G1/2	Manual drain/Semi auto	P3XFA14EGCN
G1/2	Auto drain	P3XFA14EGAN
G3/4	Manual drain / Semi auto	P3XFA16EGCN
G3/4	Auto drain	P3XFA16EGAN
	Mounting bracket	P3XKA00MW

Coalescing Filters - 0.01 micron element

Port size	Description	Order Code
G1/2	Coalescing 0.01µm, manual/semi auto drain	P3XFA14DGCN
G1/2	Coalescing Filter 0.01µm, auto drain	P3XFA14DGAN
G3/4	Coalescing 0.01µm, manual/semi auto drain	P3XFA16DGCN
G3/4	Coalescing Filter 0.01µm, auto drain	P3XFA16DGAN

Adsorber Filters

Port size	Description	Order Code
G1/2	Adsorber 0.01µm, manual/semi auto drain	P3XFA14AGCN
G3/4	Adsorber 0.01µm, manual/semi auto drain	P3XFA16AGCN

Filter/Regulators

- transparent bowl - 2 and 4 bar and non relieving options available

Port size	Description	Order Code
G1/2	8 bar, relieving manual/semi auto drain	P3XEA14EGCBNNN
G1/2	8 bar, relieving auto drain	P3XEA14EGABNNN
G1/2	8 bar, relieving manual/semi auto + gauge	P3XEA14EGCBNGN
G1/2	8 bar, relieving auto drain + gauge	P3XEA14EGABNGN
G3/4	8 bar, relieving manual/semi auto drain	P3XEA16EGCBNNN
G3/4	8 bar, relieving auto drain	P3XEA16EGABNNN
G3/4	8 bar, relieving manual/semi auto + gauge	P3XEA16EGCBNGN
G3/4	8 bar, relieving auto drain + gauge	P3XEA16EGABNGN

Lubricators

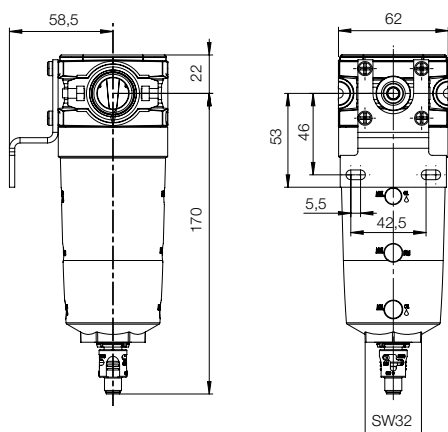
Port size	Description	Order Code
G1/2	Oil mist, fill under pressure (50mg/m ³)	P3XLA14PGNN
G3/4	Oil mist, fill under pressure (50mg/m ³)	P3XLA16PGNN
G1/2	Oil mist, fill under pressure (5mg/m ³)	P3XLA14SGNN
G3/4	Oil mist, fill under pressure (5mg/m ³)	P3XLA16SGNN

Pressure Gauges

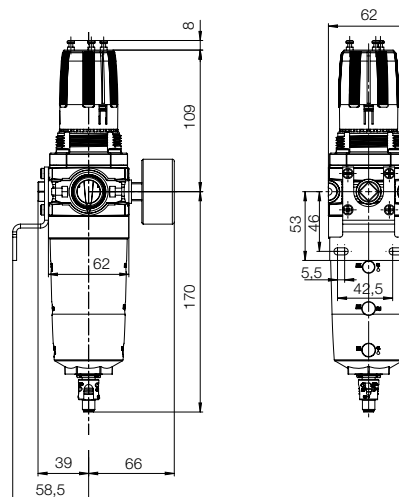
	Order Code
0 - 10 bar	KG8012
0 - 16 bar	KG8013

Dimensions (mm)

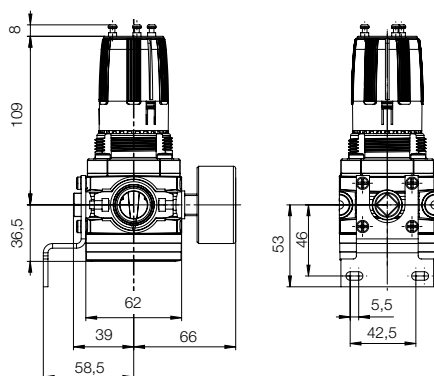
Filters



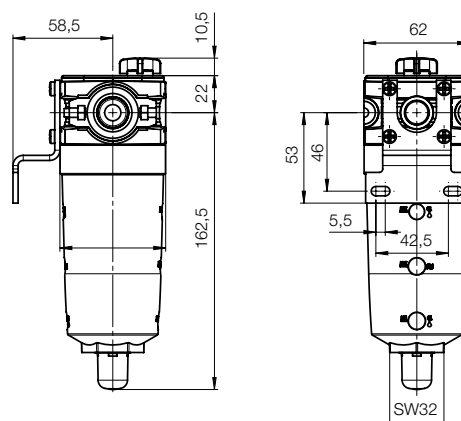
Filter/Regulators



Regulators



Lubricators



Service kits

Description	Order code
5 micron element kit	P3XKA00ESE
40 micron element kit	P3XKA00ESG
Bowl kit with combined manual/semi auto drain	P3XKA00BSC
Bowl kit with auto drain	P3XKA00BSA
Tamper-proof knob kit (keylock)	P3XKA00AS
Diaphragm kit (relieving type)	P3XKA00RR
Diaphragm kit (non-relieving type)	P3XKA00RN
Wall bracket kit	P3XKA00MW
Panel mount nut	P3XKA00MM

- Removes water vapour & lowers the PDP
- Compact design
- No electrical connections necessary
- Suitable for hazardous environments
- No moving parts
- Maintenance & wear free
- No change in air consumption
- Low pressure drop less than 0.1 bar
- Minimal purge air consumption
- Modular design - compatible with the P3X air prep series



Operating information

Operating pressure range:	5 to 16 bar
Temperature range:	2 °C to 60 °C
Pressure drop:	0.1 bar
Purge air (at 20K PDP reduction):	10%
Max Flow at inlet (size 50):	2800 l/m

Note:
For optimum system performance and maintenance free conditions, Parker recommend the dryer is preceded with a 5 micron and 0.01 coalescer filter from the P3X series.

Membrane dryer

Port size	Size	Description	Order Code
G1/2	10	Membrane dryer with return tube - size 10	P3XJA14CA1N
G1/2	15	Membrane dryer with return tube - size 15	P3XJA14CB1N
G1/2	20	Membrane dryer with return tube - size 20	P3XJA14CC1N
G1/2	25	Membrane dryer with return tube - size 25	P3XJA14CD1N
G1/2	35	Membrane dryer serial type - size 35	P3XJA14CE1N
G1/2	50	Membrane dryer serial type - size 50	P3XJA14CF1N



Atex versions available on request

Wall mounting bracket kit

Order Code
P3XKA00MWD

Complete Filter / Dryer System combinations available on request



F + Fc + MD



F + Fc + MD + R



F + Fc + MD + R + Fa

Selection Criteria

To correctly select the dryer best suited for your application, the following information is required to ensure optimum performance and trouble free operation.

- Maximum inlet pressure dew point (°C)
- Outlet PDP (°C)
- Working pressure (bar)
- Maximum inlet flow rate (m³/h)

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

Working Example:

Selecting a dryer with an inlet pressure dew point of 35°C, a PDP reduction of 35K with a working / operating pressure of 6 bar and an inlet flow of 11 m³/h.

Step 1

From the correction factor table select the required pressure (6 bar) and read below the corrected factor value (0.78)

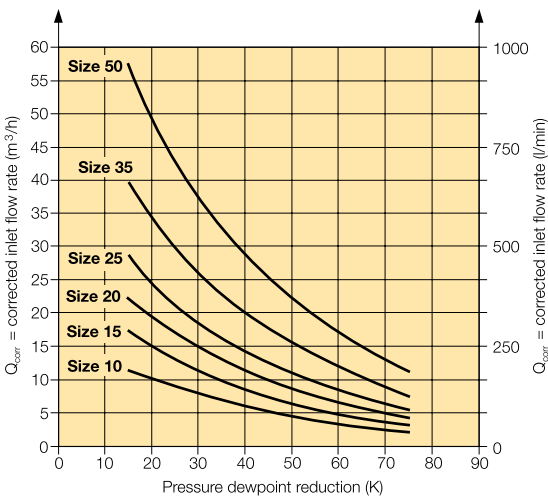
Step 2

To adjust the flow for your application, divide the required flow by the 0.78 correction factor

Sizing capacity = $\frac{\text{Actual flow}}{\text{Correction factor}} = \frac{11 \text{ m}^3/\text{h}}{0.78} = 14.1 \text{ m}^3/\text{h}$

Step 3

Plot the values on the selection graph (below). Where the dew point reduction value of 35K intersects with the corrected flow value of 14.1 m³/h, select the dryer flow curve which is equal or above the intersection point. For example: the optimum dryer would be **size 25 (P3XJA14CD1N)**





Parker Global Air Preparation System

Global.
Economical.
Modular.



*Performance you need,
wherever you need it.*

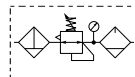
The comprehensive Global Air Preparation System is available in three body sizes with either BSPP or NPT to accommodate thread type requirements.

Full featured filters, regulators, filter/regulators, and lubricators are available with a wide range of standard options to meet air preparation needs.

Individual units can easily be assembled into various combinations, utilizing patented modular lightweight body connectors.

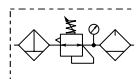
www.parker.com/globalfrl

Popular Combinations - P31 Series



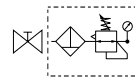
Filter + Regulator + Lubricator Combinations + Poly bowl
5 micron element, 8 bar Regulator + Gauge and Wall Mounting Brackets
Inlet pressure 10 bar, Secondary pressure 6.3 bar, 1 bar pressure drop.

Port size	Flow dm ³ /s	Flow (scfm)	Manual Drain	Weight	Pulse Drain	Weight
1/4"	13	27	P31CB12GEMNTLW	0.46 kg (1.01 lbs)	P31CB12GEBNTLW	0.46 kg (1.01 lbs)



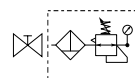
Filter/Regulator + Lubricator Combinations + Poly bowl
5 micron element, 8 bar Regulator + Gauge and Wall Mounting Brackets
Inlet pressure 10 bar, Secondary pressure 6.3 bar, 1 bar pressure drop.

Port size	Flow dm ³ /s	Flow (scfm)	Manual Drain	Weight	Pulse Drain	Weight
1/4"	14	28	P31CA12GEMNTLW	0.35 kg (0.77 lbs)	P31CA12GEBNTLW	0.35 kg (0.77 lbs)



Slide Valve + Filter/Regulator + Lubricator Combinations + Poly bowl
5 micron element, 8 bar Regulator + Gauge and Wall Mounting Brackets
Inlet pressure 10 bar, Secondary pressure 6.3 bar, 1 bar pressure drop.

Port size	Flow dm ³ /s	Flow (scfm)	Manual Drain	Weight	Pulse Drain	Weight
1/4"	14	28	P31YA12GEMNTLW	0.54 kg (1.19 lbs)	P31YA12GEBNTLW	0.54 kg (1.19 lbs)



Slide Valve + Filter/Regulator Combinations + Poly bowl
5 micron element, 8 bar Regulator + Gauge and Wall Mounting Brackets
Inlet pressure 10 bar, Secondary pressure 6.3 bar, 1 bar pressure drop.

Port size	Flow dm ³ /s	Flow (scfm)	Manual Drain	Weight	Pulse Drain	Weight
1/4"	14	28	P31YN12GEMNTW	0.4 kg (0.88 lbs)	P31YN12GEBNTW	0.4 kg (0.88 lbs)

P 3 1						E		N		L N	W
Combination Combination C Shut off + Combi ¹ Y		Thread type BSPPP 1 NPT 9		Port size 1/4 2		Drain type Manual drain M Pulse drain B		Adjustment range With square gauge 2 bar * V 4 bar S 8 bar ** T		Add only for options with Lubricator	
Combination type F/R+L A F+R+L B F/R N		Bowl type Poly bowl with bowl guard G Metal bowl without sight glass M		* Unit comes with 0-4 bar, gauge respectively ** Unit comes with 0-10 bar, gauge respectively ¹ Option not available with F+R+L							

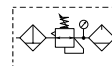
Note: All bowl types are the same for each component

Example: If a "G" is specified for a F+L, both units would get a poly bowl with bowl guard.

Popular Combinations - P32 Series



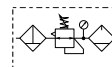
Filter + Regulator + Lubricator Combinations + Poly bowl
5 micron element, 8 bar Regulator + Gauge and Wall Mounting Brackets
Inlet pressure 10 bar, Secondary pressure 6.3 bar, 1 bar pressure drop.



Port size	Flow dm ³ /s (scfm)	Manual Drain	Weight	Auto Drain	Weight
1/4"	20 42	P32CB12GEMNGLNW	1.29 kg (2.84 lbs)	P32CB12GEANGLNW	1.29 kg (2.84 lbs)
3/8"	32 68	P32CB13GEMNGLNW	1.29 kg (2.84 lbs)	P32CB13GEANGLNW	1.29 kg (2.84 lbs)
1/2"	40 85	P32CB14GEMNGLNW	1.29 kg (2.84 lbs)	P32CB14GEANGLNW	1.29 kg (2.84 lbs)



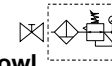
Filter/Regulator + Lubricator Combinations + Poly bowl
5 micron element, 8 bar Regulator + Gauge and Wall Mounting Brackets
Inlet pressure 10 bar, Secondary pressure 6.3 bar, 1 bar pressure drop.



Port size	Flow dm ³ /s (scfm)	Manual Drain	Weight	Auto Drain	Weight
1/4"	22 45	P32CA12GEMNGLNW	1.03 kg (2.27 lbs)	P32CA12GEANGLNW	1.03 kg (2.27 lbs)
3/8"	33 70	P32CA13GEMNGLNW	1.03 kg (2.27 lbs)	P32CA13GEANGLNW	1.03 kg (2.27 lbs)
1/2"	43 90	P32CA14GEMNGLNW	1.03 kg (2.27 lbs)	P32CA14GEANGLNW	1.03 kg (2.27 lbs)



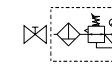
Slide Valve + Filter/Regulator + Lubricator Combinations + Poly bowl
5 micron element, 8 bar Regulator + Gauge and Wall Mounting Brackets
Inlet pressure 10 bar, Secondary pressure 6.3 bar, 1 bar pressure drop.



Port size	Flow dm ³ /s (scfm)	Manual Drain	Weight	Auto Drain	Weight
1/4"	22 45	P32YA12GEMNGLNW	1.5 kg (3.3 lbs)	P32YA12GEANGLNW	1.5 kg (3.3 lbs)
3/8"	33 70	P32YA13GEMNGLNW	1.5 kg (3.3 lbs)	P32YA13GEANGLNW	1.5 kg (3.3 lbs)
1/2"	43 90	P32YA14GEMNGLNW	1.5 kg (3.3 lbs)	P32YA14GEANGLNW	1.5 kg (3.3 lbs)



Slide Valve + Filter/Regulator Combinations + Poly bowl
5 micron element, 8 bar Regulator + Gauge and Wall Mounting Brackets
Inlet pressure 10 bar, Secondary pressure 6.3 bar, 1 bar pressure drop.



Port size	Flow dm ³ /s (scfm)	Manual Drain	Weight	Auto Drain	Weight
1/4"	22 45	P32YN12GEMNGW	1.1 kg (2.42 lbs)	P32YN12GEANGW	1.1 kg (2.42 lbs)
3/8"	33 70	P32YN13GEMNGW	1.1 kg (2.42 lbs)	P32YN13GEANGW	1.1 kg (2.42 lbs)
1/2"	43 90	P32YN14GEMNGW	1.1 kg (2.42 lbs)	P32YN14GEANGW	1.1 kg (2.42 lbs)

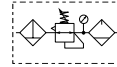
P 3 2						E		N		L N	W
Combination Combination C Shut off + Combination ¹ Y		Thread type BSPP 1 NPT 9		Port size 1/4 2 3/8 3 1/2 4		Drain type Auto drain A Manual drain M		Adjustment range With round gauge 0-2 bar; 0-30 psi; 0.2 MPa Z 4 bar; 60 psi; 0.4 MPa M 8 bar; 125 psi; 0.8 MPa G		Add only for options with Lubricator	
Combination type F/R+L A F+R+L B F/R N		Bowl type Poly bowl with bowl guard G Metal bowl with sight glass S		Note: All bowl types are the same for each component Example: If a "G" is specified for a F+L, both units would get a poly bowl with bowl guard.							

¹ Option not available with F+R+L

Popular Combinations - P33 Series



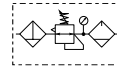
Filter + Regulator + Lubricator Combinations + Poly bowl
5 micron element, 8 bar Regulator + Gauge and Wall Mounting Brackets
Inlet pressure 10 bar, Secondary pressure 6.3 bar, 1 bar pressure drop.



Port size	Flow dm ³ /s (scfm)	Manual Drain	Weight	Auto Drain	Weight
1/2"	43 90	P33CB14GEMNGLNW	1.84 kg (4.06 lbs)	P33CB14GEANGLNW	1.84 kg (4.06 lbs)
3/4"	52 110	P33CB16GEMNGLNW	1.84 kg (4.06 lbs)	P33CB16GEANGLNW	1.84 kg (4.06 lbs)



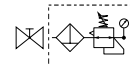
Filter/Regulator + Lubricator Combinations + Poly bowl
5 micron element, 8 bar Regulator + Gauge and Wall Mounting Brackets
Inlet pressure 10 bar, Secondary pressure 6.3 bar, 1 bar pressure drop.



Port size	Flow dm ³ /s (scfm)	Manual Drain	Weight	Auto Drain	Weight
1/2"	52 110	P33CA14GEMNGLNW	1.51 kg (3.33 lbs)	P33CA14GEANGLNW	1.51 kg (3.33 lbs)
3/4"	71 150	P33CA16GEMNGLNW	1.51 kg (3.33 lbs)	P33CA16GEANGLNW	1.51 kg (3.33 lbs)



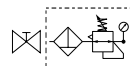
Slide Valve + Filter/Regulator + Lubricator Combinations + Poly bowl
5 micron element, 8 bar Regulator + Gauge and Wall Mounting Brackets
Inlet pressure 10 bar, Secondary pressure 6.3 bar, 1 bar pressure drop.



Port size	Flow dm ³ /s (scfm)	Manual Drain	Weight	Auto Drain	Weight
1/2"	52 110	P33YA14GEMNGLNW	2.35 kg (5.2 lbs)	P33YA14GEANGLNW	2.35 kg (5.2 lbs)
3/4"	71 150	P33YA16GEMNGLNW	2.35 kg (5.2 lbs)	P33YA16GEANGLNW	2.35 kg (5.2 lbs)



Slide Valve + Filter/Regulator Combinations + Poly bowl
5 micron element, 8 bar Regulator + Gauge and Wall Mounting Brackets
Inlet pressure 10 bar, Secondary pressure 6.3 bar, 1 bar pressure drop.



Port size	Flow dm ³ /s (scfm)	Manual Drain	Weight	Auto Drain	Weight
1/2"	52 110	P33YN14GEMNGW	1.7 kg (3.75 lbs)	P33YN14GEANGW	1.7 kg (3.75 lbs)
3/4"	71 150	P33YN16GEMNGW	1.7 kg (3.75 lbs)	P33YN16GEANGW	1.7 kg (3.75 lbs)

P 3 3					E		N		LN	W
Combination Combination C Shut off + Combination ¹ Y		Thread type BSPP 1 NPT 9	Port size 1/2 4 3/4 6	Drain type Auto drain A Manual drain M	Adjustment range With round gauge 0-2 bar; 0-30 psi; 0.2 MPa Z 4 bar; 60 psi; 0.4 MPa M 8 bar; 125 psi; 0.8 MPa G		Add only for options with Lubricator			
¹ Option not available with F+R+L.		Combination type F/R+L A F+R+L B F/R N		Bowl type Poly bowl with bowl guard G Metal bowl with sight glass S		Note: All bowl types are the same for each component Example: If a "G" is specified for a F+L, both units would get a poly bowl with bowl guard.				

- Space saving integral gauge (P31 size only)
- Manifold style regulators available
- OSHA compliant shut-off valves
- Soft-Start & Quick Dump valves
- Electronic Proportional Regulator



Operating information			Flow characteristics					
Working pressure :			40mm body width 1/4" Ported		60mm body width 1/4", 3/8", & 1/2" Ported		73mm body width 1/2" & 3/4" Ported	
	Plastic bowl:	10 bar max	Flow	dm³/s	Flow	dm³/s	Flow	dm³/s
	Metal bowl:	17 bar max	Filter	12	Filter	38	Filter	48
Working temperature :			Coalescing Filter	2	Coalescing Filter	11	Coalescing Filter	20
	Plastic bowl:	0°C to +52°C	Regulator	30	Regulator	67	Regulator	100
	Metal bowl:	0°C to +65.5°C	Filter Regulator	14	Filter Regulator	64	Filter Regulator	98
			Lubricator	13	Lubricator	47	Lubricator	68

Filters - 5 µm

Port	Description	Order code
1/4"	Poly bowl - Manual drain	P31FA12EGMN
1/4"	Poly bowl - Pulse drain	P31FA12EGBN
1/4"	Metal bowl - Manual drain	P31FA12EMMN
1/4"	Metal bowl - Pulse drain	P31FA12EMBN
1/4"	Poly bowl - Manual drain	P32FA12EGMN
1/4"	Poly bowl - Auto drain	P32FA12EGAN
1/4"	Metal bowl sight glass - Manual drain	P32FA12ESMN
1/4"	Metal bowl sight glass - Auto drain	P32FA12ESAN
3/8"	Poly bowl - Manual drain	P32FA13EGMN
3/8"	Poly bowl - Auto drain	P32FA13EGAN
3/8"	Metal bowl sight glass - Manual drain	P32FA13ESMN
3/8"	Metal bowl sight glass - Auto drain	P32FA13ESAN
1/2"	Poly bowl - Manual drain	P32FA14EGMN
1/2"	Poly bowl - Auto drain	P32FA14EGAN
1/2"	Metal bowl sight glass - Manual drain	P32FA14ESMN
1/2"	Metal bowl sight glass - Auto drain	P32FA14ESAN
1/2"	Poly bowl - Manual drain	P33FA14EGMN
1/2"	Poly bowl - Auto drain	P33FA14EGAN
1/2"	Metal bowl sight glass - Manual drain	P33FA14ESMN
1/2"	Metal bowl sight glass - Auto drain	P33FA14ESAN
3/4"	Poly bowl - Manual drain	P33FA16EGMN
3/4"	Poly bowl - Auto drain	P33FA16EGAN
3/4"	Metal bowl sight glass - Manual drain	P33FA16ESMN
3/4"	Metal bowl sight glass - Auto drain	P33FA16ESAN

Coalescing Filters + Absorbers - 0,01 µm

Port	Description	Order code
1/4"	Poly bowl - 0.01 µm - Manual drain	P31FA12CGMN
1/4"	Poly bowl - 0.01 µm - Pulse drain	P31FA12CGBN
1/4"	Metal bowl - 0.01 µm - Manual drain	P31FA12CMMN
1/4"	Metal bowl - 0.01 µm - Pulse drain	P31FA12CMBN
1/4"	Poly bowl - Adsorber	P31FA12AGMN
1/4"	Metal bowl - Adsorber	P31FA12AMMN
1/4"	Poly bowl - 0.01 µm, Manual drain	P32FA12DGMN
1/4"	Poly bowl - 0.01 µm, Auto drain	P32FA12DGAN
1/4"	Metal bowl sight glass - 0.01 µm, Man. drain	P32FA12DSMN
1/4"	Metal bowl sight glass - 0.01 µm, Auto drain	P32FA12DSAN
3/8"	Poly bowl - 0.01 µm, Manual drain	P32FA13DGMN
3/8"	Poly bowl - 0.01 µm, Auto drain	P32FA13DGAN
3/8"	Metal bowl sight glass - 0.01 µm, Man. drain	P32FA13DSMN
3/8"	Metal bowl sight glass - 0.01 µm, Auto drain	P32FA13DSAN
1/2"	Poly bowl - 0.01 µm, Manual drain	P32FA14DGMN
1/2"	Poly bowl - 0.01 µm, Auto drain	P32FA14DGAN
1/2"	Metal bowl sight glass - 0.01 µm, Man. drain	P32FA14DSMN
1/2"	Metal bowl sight glass - 0.01 µm, Auto drain	P32FA14DSAN
1/4"	Poly bowl - Adsorber	P32FA12AGMN
1/4"	Metal bowl sight glass - Adsorber	P32FA12ASMN
3/8"	Poly bowl - Adsorber	P32FA13AGMN
3/8"	Metal bowl sight glass - Adsorber	P32FA13ASMN
1/2"	Poly bowl - Adsorber	P32FA14AGMN
1/2"	Metal bowl sight glass - Adsorber	P32FA14ASMN
1/2"	Poly bowl - 0.01 µm, Manual drain	P33FA14DGMN
1/2"	Poly bowl - 0.01 µm, Auto drain	P33FA14DGAN
1/2"	Metal bowl sight glass - 0.01 µm, Man. drain	P33FA14DSMN
1/2"	Metal bowl sight glass - 0.01 µm, Auto drain	P33FA14DSAN
3/4"	Poly bowl - 0.01 µm, Manual drain	P33FA16DGMN
3/4"	Poly bowl - 0.01 µm, Auto drain	P33FA16DGAN
3/4"	Metal bowl sight glass - 0.01 µm, Man. drain	P33FA16DSMN
3/4"	Metal bowl sight glass - 0.01 µm, Auto drain	P33FA16DSAN
1/2"	Poly bowl - Adsorber	P33FA14AGMN
1/2"	Metal bowl sight glass - Adsorber	P33FA14ASMN
3/4"	Poly bowl - Adsorber	P33FA16AGMN
3/4"	Metal bowl sight glass - Adsorber	P33FA16ASMN

Regulators

Port	Description	Order code
1/4"	8 bar relieving	P31RA12BNNP
1/4"	8 bar relieving + gauge	P31RA12BNTP
1/4"	8 bar (125 psi) Relieving	P32RA12BNNP
1/4"	8 bar (125 psi) Relieving + Gauge	P32RA12BNGP
3/8"	8 bar (125 psi) Relieving	P32RA13BNNP
3/8"	8 bar (125 psi) Relieving + Gauge	P32RA13BNGP
1/2"	8 bar (125 psi) Relieving	P32RA14BNNP
1/2"	8 bar (125 psi) Relieving + Gauge	P32RA14BNGP
1/2"	8 bar (125 psi) Relieving	P33RA14BNNP
1/2"	8 bar (125 psi) Relieving + Gauge	P33RA14BNGP
3/4"	8 bar (125 psi) Relieving	P33RA16BNNP
3/4"	8 bar (125 psi) Relieving + Gauge	P33RA16BNGP

Lubricators

Port	Description	Order code
1/4"	Poly bowl - No drain	P31LA12LGNN
1/4"	Metal bowl - No drain	P31LA12LMNN
1/4"	Poly bowl - No drain	P32LA12LGNN
1/4"	Metal bowl - No drain	P32LA12LSNN
3/8"	Poly bowl - No drain	P32LA13LGNN
3/8"	Metal bowl - No drain	P32LA13LSNN
1/2"	Poly bowl - No drain	P32LA14LGNN
1/2"	Metal bowl - No drain	P32LA14LSNN
1/2"	Poly bowl - No drain	P33LA14LGNN
1/2"	Metal bowl - No drain	P33LA14LSNN
3/4"	Poly bowl - No drain	P33LA16LGNN
3/4"	Metal bowl - No drain	P33LA16LSNN

Filter Regulators

Port	Description	Order code
1/4"	8 bar (125 psi) Relieving - Poly bowl - Manual drain	P31EA12EGMBNTP
1/4"	8 bar (125 psi) Relieving - Poly bowl - Pulse drain	P31EA12EGBBNTP
1/4"	8 bar (125 psi) Relieving - Metal bowl - Manual drain	P31EA12EMMBNTP
1/4"	8 bar (125 psi) Relieving - Metal bowl - Pulse drain	P31EA12EMBBNTP
1/4"	8 bar (125 psi) Relieving - Poly bowl - Manual drain	P32EA12EGMBNGP
1/4"	8 bar (125 psi) Relieving - Poly bowl - Auto drain	P32EA12EGABNGP
1/4"	8 bar (125 psi) Relieving - Metal bowl sight glass - Manual drain	P32EA12ESMBNGP
1/4"	8 bar (125 psi) Relieving - Metal bowl sight glass - Auto drain	P32EA12ESABNGP
3/8"	8 bar (125 psi) Relieving - Poly bowl - Manual drain	P32EA13EGMBNGP
3/8"	8 bar (125 psi) Relieving - Poly bowl - Auto drain	P32EA13EGABNGP
3/8"	8 bar (125 psi) Relieving - Metal bowl sight glass - Manual drain	P32EA13ESMBNGP
3/8"	8 bar (125 psi) Relieving - Metal bowl sight glass - Auto drain	P32EA13ESABNGP
1/2"	8 bar (125 psi) Relieving - Poly bowl - Manual drain	P32EA14EGMBNGP
1/2"	8 bar (125 psi) Relieving - Poly bowl - Auto drain	P32EA14EGABNGP
1/2"	8 bar (125 psi) Relieving - Metal bowl sight glass - Manual drain	P32EA14ESMBNGP
1/2"	8 bar (125 psi) Relieving - Metal bowl sight glass - Auto drain	P32EA14ESABNGP
1/2"	8 bar (125 psi) Relieving - Poly bowl - Manual drain	P33EA14EGMBNGP
1/2"	8 bar (125 psi) Relieving - Poly bowl - Auto drain	P33EA14EGABNGP
1/2"	8 bar (125 psi) Relieving - Metal bowl sight glass - Manual drain	P33EA14ESMBNGP
1/2"	8 bar (125 psi) Relieving - Metal bowl sight glass - Auto drain	P33EA14ESABNGP
3/4"	8 bar (125 psi) Relieving - Poly bowl - Manual drain	P33EA16EGMBNGP
3/4"	8 bar (125 psi) Relieving - Poly bowl - Auto drain	P33EA16EGABNGP
3/4"	8 bar (125 psi) Relieving - Metal bowl sight glass - Manual drain	P33EA16ESMBNGP
3/4"	8 bar (125 psi) Relieving - Metal bowl sight glass - Auto drain	P33EA16ESABNGP

Gauges

Port	Description	Order code
P31	Square Flush	0-4 bar K4511SCR04B
	Mounting Gauge Kit	0-10 bar K4511SCR11B
P31	40mm Round Gauge	0-30 psi / 0-2 bar 1/8" P3D-KAB1AYN
		0-60 psi / 0-4.1 bar 1/8" P3D-KAB1ALN
		0-160 psi / 0-10 bar 1/8" P3D-KAB1ANN
P32 / P33	50mm Round Gauge	0-60 psi / 0-4.1 bar 1/4" P6G-ERB2040
		0-160 psi / 0-10 bar 1/4" P6G-ERB2110
		0-300 psi / 0-20 bar 1/4" P6G-ERB2200

Combined Soft Start Dump Valve and Remote Operated Dump Valve

Port	Description	Order code
1/4	Solenoid operated (not included)	P31TA12SGN0000
1/4	24VDC Solenoid & cable plug	P31TA12SGNC2CN
1/4	Air pilot operated	P31TA12PPN
1/2	Solenoid operated (not included)	P32TA14SCN0000
1/2	24VDC 30mm coil & cable plug incl.	P32TA14SCNA2CN
1/2	Air pilot operated	P32TA14PPN

Remote Operated Dump Valve

Port	Description	Order code
1/4	Solenoid operated (not included)	P31DA12SGN0000
1/4	24VDC Solenoid & cable plug	P31DA12SGNC2CN
1/4	Air pilot operated	P31DA12PPN
1/2	Solenoid operated (not included)	P32DA14SCN0000
1/2	24VDC 30mm coil & cable plug incl.	P32DA14SCNA2CN
1/2	Air pilot operated	P32DA14PPN

Soft Start Valve

Port	Description	Order code
1/4	Solenoid operated (not included)	P31SA12SGN0000
1/4	24VDC Solenoid & cable plug	P31SA12SGNC2CN
1/4	External air pilot (1/8 threaded)	P31SA12PPN
1/2	Solenoid operated (not included)	P32SA14SCN0000
1/2	24VDC 30mm coil & cable plug	P32SA14SCNA2CN
1/2	Internal air pilot operated	P32SA14Y0N
1/2	External air pilot (1/8 threaded)	P32SA14PPN

Safety Lockout Valves

Model Type	Port Size	Thread type	Safety Lockout Valve Flow from left to right
P31	1/4	BSPP	P31VA12LSAN
P32	3/8	BSPP	P32VA13LSAN
	1/2	BSPP	P32VA14LSAN
P33	1/2	BSPP	P33VA14LSAN
	3/4	BSPP	P33VA16LSAN

Model Type	Port Size	Thread type	Safety Lockout Valve Flow from right to left
P32	3/8	BSPP	P32VA13LSBN
	1/2	BSPP	P32VA14LSBN
P33	1/2	BSPP	P33VA14LSBN
	3/4	BSPP	P33VA16LSBN

For thread type: NPT **9****Manifold Blocks**

Model Type	In / Out Port Size	Auxiliary Port Size Top	Auxiliary Port Size Bottom	Thread Type	Order Code
P31	1/4	1/4	1/4	BSPP	P31MA12022N
P32/P33	3/4	1/4	1/2	BSPP	P33MA16024N

For thread type: NPT **9**

Accessories Kits

Series	Description	Connection	Order Code	
P31 P32 P33	Panel Mount Nut (Plastic)		P31KA00MP P32KA00MP P33KA00MP	
P31 P32 P33	Panel Mount Nut (Aluminium)		P31KA00MM P32KA00MM P33KA00MM	
P31 P32 P33	5µ Element Kit		P31KA00ESE P32KA00ESE P33KA00ESE	
P31 P32 P33	1µ Element Kit		P31KA00ES9 P32KA00ES9 P33KA00ES9	
P31 P32 P33	0.01µ Element Kit		P31KA00ESC P32KA00ESC P33KA00ESC	
P31 P32 P33	Adsorber Element Kit		P31KA00ESA P32KA00ESA P33KA00ESA	
P32 / P33	Auto Drain Kit		P32KA00DA	
P32 / P33	Differential Pressure Indicator Kit		P32KA00RQ	
P31 P32 P33	Plastic Bowl with Bowl Guard & Manual Drain		P31KA00BGM P32KA00BGM P33KA00BGM	
P31	Plastic Bowl with Bowl Guard & Pulse Drain		P31KA00BGB	
P32 P33	Plastic Bowl with Bowl Guard & Auto Drain		P32KA00BGA P33KA00BGA	
P31	Metal Bowl without Sight Gauge & Pulse Drain		P31KA00BMB	
P32 P33	Metal Bowl with Sight Gauge & Manual Drain		P32KA00BSM P33KA00BSM	
P32 P33	Metal Bowl with Sight Gauge & Auto Drain		P32KA00BSA P33KA00BSA	
P31 P32 P33	Lubricator - Plastic Bowl with Bowl Guard & Close End		P31KA00BGN P32KA00BGN P33KA00BGN	
P31 P32 P33	Lubricator - Metal Bowl Without Sight Gauge, No Drain Lubricator - Metal Bowl With Sight Gauge, No Drain Lubricator - Metal Bowl With Sight Gauge, No Drain		P31KA00BMN P32KA00BSN P33KA00BSN	
P31 P32 P33	Regulator - Relieving Repair Kit		P31KA00RB P32KA00RB P33KA00RB	
P31 P32 P33	Regulator - Non Relieving Repair Kit		P31KA00RC P32KA00RC P33KA00RC	

Pressure Switch

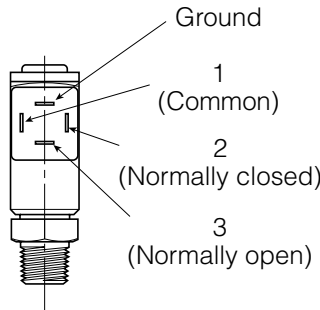
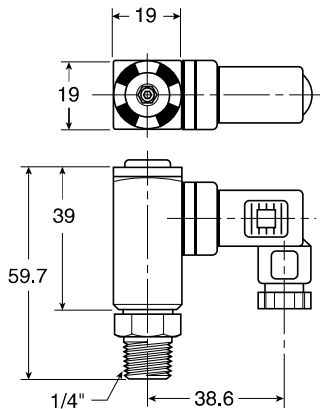


- Inline Mounting
- Dial indicator for easy pressure setting
- 5 amp rated snap action micro switch
- Heavy duty aluminium component
- Compact size
- DIN 43650HCM connector included
- IP65 Rated
- Field adjustable 2 - 10 bar
- +/- 2% repeatability
- Single pole / Double throw switch

The Pressure Switch monitors the air pressure in your pneumatic system. When the pressure in your system either drops below or exceeds the set point, an electrical output is generated.

Using a 3mm hex wrench, turn the adjusting screw on top of the unit clockwise to increase the pressure set point and counterclockwise to decrease the pressure setting. One complete revolution of the adjusting screw covers the complete adjustment range (2 - 10 bar).

Description	Order code	Weight (g)
G1/4	P01913	90



Technical Information

Electrical:	5 amp, 12/24VDC, 125/250VAC
Maximum inlet pressure:	20 bar
Mechanical life:	10 ⁶ at standard operating conditions
Electrical connection:	DIN 43650HCM
Electrical protection:	IP65
Repeatability:	±2% at 20°C ambient
Temperature range:	-40°C to 80°C
Weight:	0,06 Kg

Material Specification

Diaphragm:	Nitrile
Housing:	Anodised aluminium

For the most demanding hi-flow industrial applications



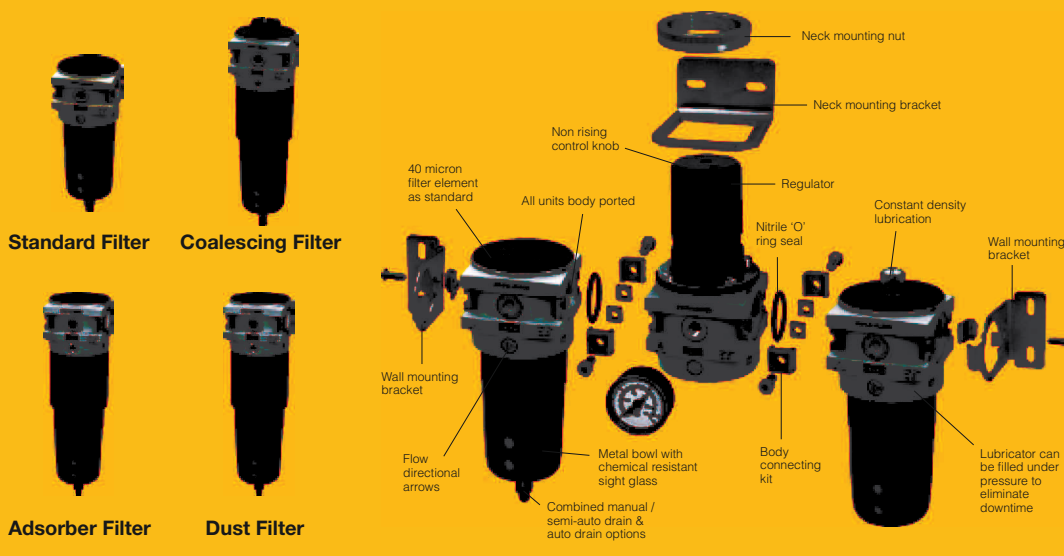
The P3Y system allows units to be connected together, without the use of pipe connectors, saving space; providing constant mounting centres; whilst maintaining a modern aesthetically pleasing appearance.

The P3Y Filters are specially designed to efficiently filter out rust, dirt, moisture and other impurities from compressed air lines. Operation is fully automatic with a minimum of pressure drop. Coalescing filters and adsorber filters for high purity air are also included in the P3Y series.

The P3Y Regulators are designed to provide quick response and accurate pressure regulation for the most demanding hi-flow industrial applications. The rolling diaphragm was designed for long trouble-free operation and will not rupture or tear under high cycle or other demanding applications.



Selection of Filters



- Integral 3/4 or 1" ports (BSPP or NPT)
- High efficiency element as standard
- Excellent water removal efficiency
- Robust but lightweight aluminium construction
- Secondary pressure ranges 12 and 16 bar
- Rolling diaphragm for extended life
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation.



Operating information		Flow characteristics		
Working pressure:	Max 17.5 bar	Flow dm³/s	3/4	1"
Working temperature:	-10 °C to +60 °C	Filter	116	119
		Dust Filter	137	145
		Coalescing Filter	49	59
		Adsorber Filter	47	50
		Regulator	155	321
		Filter Regulator	190	237
		Lubricator	162	184

Filters - 5 micron element

Port size	Description	Order Code
G3/4	Manual drain/Semi auto	P3YFA16GSCN
G3/4	Auto drain	P3YFA16GSAN
G1"	Manual drain / Semi auto	P3YFA18GSCN
G1"	Auto drain	P3YFA18GSAN
	Mounting bracket	P3YKA00CW

Dust Filters - 1 micron element

Port size	Description	Order Code
G3/4	Manual drain/Semi auto	P3YFA162SCN
G3/4	Auto drain	P3YFA162SAN
G1"	Manual drain / Semi auto	P3YFA182SCN
G1"	Auto drain	P3YFA182SAN

Regulators - relieving type - non relieving options available

Port size	Description	Order Code
G3/4	12 bar relieving	P3YRA16BNEN
G3/4	12 bar relieving + gauge	P3YRA16BNFN
G1"	12 bar relieving	P3YRA18BNEN
G1"	12 bar relieving + gauge	P3YRA18BNFN
G3/4	12 bar relieving, lockable	P3YRA16BAEN
G3/4	12 bar relieving, lockable + gauge	P3YRA16BAFN
G1"	12 bar relieving, lockable	P3YRA18BAEN
G1"	12 bar relieving, lockable + gauge	P3YRA18BAFN

Pressure Gauges

	Order Code
0 - 10 bar	KG8012
0 - 16 bar	KG8013

Coalescing Filters - 0.01 micron element

Port size	Description	Order Code
G3/4	Coalescing 0.01µm, manual/semi auto drain	P3YFA16DSCN
G3/4	Coalescing Filter 0.01µm, auto drain	P3YFA16DSAN
G1"	Coalescing 0.01µm, manual/semi auto drain	P3YFA18DSCN
G1"	Coalescing Filter 0.01µm, auto drain	P3YFA18DSAN

Adsorber Filters

Port size	Description	Order Code
G3/4	Adsorber 0.01µm, manual drain	P3YFA16ASCN
G1"	Adsorber 0.01µm, manual drain	P3YFA18ASCN

Lubricators

Port size	Description	Order Code
G3/4	Oil mist, fill under pressure	P3YLA16LSNN
G1"	Oil mist, fill under pressure	P3YLA18LSNN

Filter/Regulators

- transparent bowl - 2 and 4 bar and non relieving options available

Port size	Description	Order Code
G3/4	12 bar, relieving manual/semi auto drain	P3YEA16GSCBNEN
G3/4	12 bar, relieving auto drain	P3YEA16GSABNEN
G3/4	12 bar, relieving manual/semi auto + gauge	P3YEA16GSCBNFN
G3/4	12 bar, relieving auto drain + gauge	P3YEA16GSABNFN
G1"	12 bar, relieving manual/semi auto drain	P3YEA18GSCBNEN
G1"	12 bar, relieving auto drain	P3YEA18GSABNEN
G1"	12 bar, relieving manual/semi auto + gauge	P3YEA18GSCBNFN
G1"	12 bar, relieving auto drain + gauge	P3YEA18GSABNFN

Proportional Pressure Regulator

Port size	Description	Order Code
G3/4	Normally closed	P3YPA16BD2VA2A
G1"	Normally closed	P3YPA18BD2VA2A

Pilot Operated Regulator

Port size	Description	Order Code
G3/4	Pilot operated regulator	P3YRA16BPN
G1"	Pilot operated regulator	P3YRA18BPN

Combined Soft Start Dump Valve and Remote Operated Dump Valve

Port size	Description	Order Code
G3/4	Solenoid operated (not included)	P3YTA16SCN0000
G3/4	24VDC 22mm coil	P3YTA16SCNB2CN
G3/4	Air pilot operated	P3YTA16PPN
G1"	Solenoid operated (not included)	P3YTA18SCN0000
G1"	24VDC 22mm coil	P3YTA18SCNB2CN
G1"	Air pilot operated	P3YTA18PPN

Modular Ball Valve

Port size	Description	Order Code
G3/4	Modular Ball Valve	P3YVA16LBN
G1"	Modular Ball Valve	P3YVA18LBN

Modular Manifold

Port size	Description	Order Code
G3/4	Modular Manifold	P3YMA1VON
G1"	Modular Manifold	P3YMA9VON

Soft Start Valve

Port size	Description	Order Code
G3/4	Soft start valve	P3YSA16YON
G1"	Soft start valve	P3YSA18YON

Optional Port Block Kits

Port size	Description	Order Code
1 1/4"	Port block kit BSPP (G)	P3YKA1ACP
1 1/2"	Port block kit - NPT	P3YKA9BCP

Neck mounting bracket kit

Description	Order Code
Neck mounting bracket kit	P3YKA00MS

Wall mounting brackets

Description	Order Code
Wall mounting brackets	P3YKA00CW

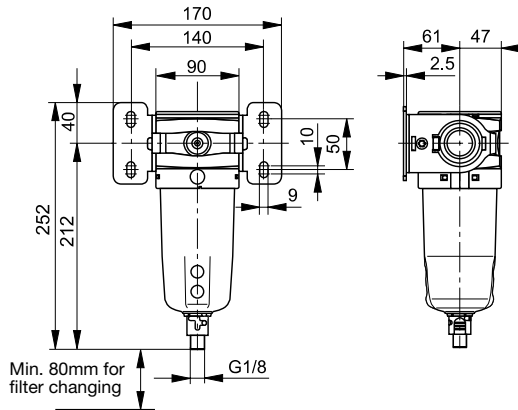
PDE2600PNUK

Parker One Pneumatic

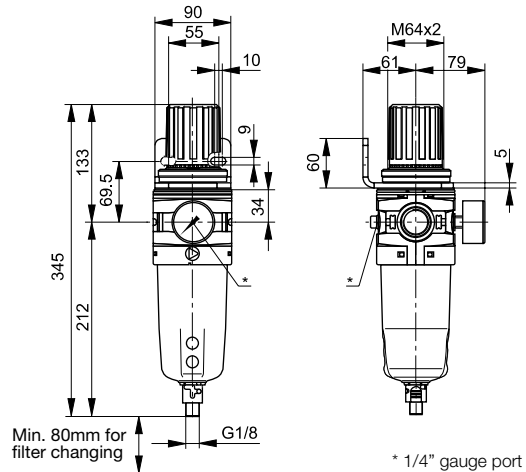
P3Y Air Preparation System

Dimensions (mm)

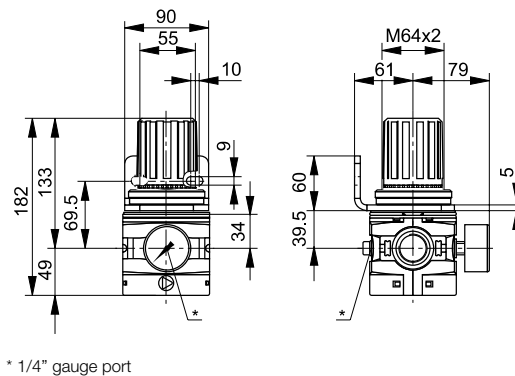
Filters



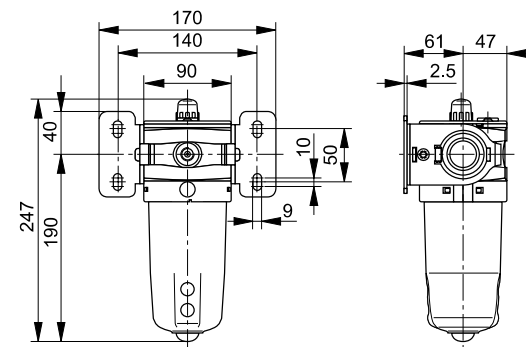
Filter/Regulators



Regulators



Lubricators



Service kits

Description	Order code
5 micron element kit	P3YKA00ESE
40 micron element kit	P3YKA00ESG
Bowl kit with combined manual/semi auto drain	P3YKA00BSC
Bowl kit with auto drain	P3YKA00BSA
Key Lock Kit	P3XKA00AS
Diaphragm kit (relieving type)	P3YKA00RR
Diaphragm kit (non-relieving type)	P3YKA00RN
Angle bracket + metal lock ring	P3YKA00MS
Panel mount nut	P3YKA00MM



The all metal P3Z Series FRLs are ideal for most medium sized ring main installations.

- Self relieving feature plus balanced poppet provides quick response and accurate pressure regulation.
- Threaded port flange available to G1-1/2" and G2"
- Proportional oil delivery over a wide range of air flows.



Operating information

Working pressure:	0 - 17.5 bar
Working temperature:	0 °C to +60 °C

Flow characteristics

Flow	Filter	>666,6 dm ³ /s
	Regulator	>666,6 dm ³ /s
	Lubricator	>666,6 dm ³ /s

For technical information see CD



Filters

Port size	Description	Order Code
-	40µ auto drain (float drain) without flange SAE	P3ZFA00HMAN
G1.1/2"	40µ auto drain (float drain) flange fitted to SAE	P3ZFA1BHMAN
G2"	40µ auto drain (float drain) flange fitted to SAE	P3ZFA1CHMAN



Coalescing Filters

Port size	Description	Order Code
-	0.01 micron, auto drain	P3ZFA00DMAN
G1.1/2"	0.01 micron, auto drain, flange fitted to SAE	P3ZFA1BDMAN
G2"	0.01 micron, auto drain, flange fitted to SAE	P3ZFA1CDMAN



Dust Filters

Port size	Description	Order Code
-	1µ manual semi auto drain (pressure relief) without flange SAE	P3ZFA00MMAN
G1.1/2"	1µ manual semi auto drain (pressure relief) flange fitted to SAE	P3ZFA1BMMAN
G2"	1µ manual semi auto drain (pressure relief) flange fitted to SAE	P3ZFA1CMMAN



Adsorber Filters

Port size	Description	Order Code
-	Combined manual & semi-auto drain	P3ZFA00BMAN
G1.1/2"	Combined manual & semi-auto drain	P3ZFA1BBMAN
G2"	Combined manual & semi-auto drain	P3ZFA1CBMAN



Regulators

Port size	Description	Order Code
-	8 bar, relieving + gauge, without flange SAE	P3ZRA00BNGN
G1.1/2"	8 bar, relieving + gauge	P3ZRA1BBNGN
G2"	8 bar, relieving + gauge	P3ZRA1CBNGN
-	16 bar relieving + gauge, without flange SAE	P3ZRA00BNJN
G1.1/2"	16 bar, relieving + gauge	P3ZRA1BBNJN
G2"	16 bar, relieving + gauge	P3ZRA1CBNJN



Regulators Pilot Control

Port size	Description	Order Code
-	16 bar, air pilot	P3ZRA00BPPN
G1.1/2"	16 bar, relieving + gauge	P3ZRA1BBPPN
G2"	16 bar, relieving + gauge	P3ZRA1CBPPN



Lubricators

Port size	Description	Order Code
-	Lubricator, without flange SAE	P3ZLA00LSMN
G1.1/2"	Lubricator	P3ZLA1BLSMN
G2"	Lubricator	P3ZLA1CLSMN
G2"	Central airline lubricator with electrical oil level control	P3ZLA1CEMMW
G2"	Central airline lubricator with aluminium bowl	P3ZLA1CMMMW



Options & Accessories

Port size	Description	Order Code
G1.1/2"	Connection flange kit	P3ZKA1BCP
G2"	Connection flange kit	P3ZKA1CCP
-	Wall mounting kit	P3ZKA00MW
-	Coupling kit	P3ZKA00CB
-	Coupling 'O' ring kit (5 off)	P3ZKA0CCY
-	Porting block kit (1", 1/8" & 2 x 1/4" take off)	P3ZMA1V0N

High Efficiency 0.01 µm Filtration

Filtration Grade

Filtration type	Coalescing
Particle removal (inc water & oil aerosols)	Down to 0.01 micron
Max remaining oil content at 21°C	0.01 mg/m³ 0.01 ppm(w)
Filter efficiency	99.9999%
Test methods used	ISO 8573.2 ISO 8573.4 ISO 12500-1
ISO 12500-1 Inlet Challenge concentration	10 mg/m³
Initial dry differential pressure	<140 mbar (2psi)
Initial saturated differential pressure	<200 mbar (3psi)
Change element every	12 months
Precede with filtration grade	1 micron Moduflex Coalescer



Product selection

Stated flows are for operation at 7 bar (g) with reference to 20°C, 1 bar (a), 0% relative water vapour pressure. For flows at other pressures apply the correction factors shown.

Port Size BSPT	Part Number	dm³/s	m³/hr	cfm	0.01 µm Replacement Element Kit
1/4"	P3TFA22CAAN	10	36	21	P3TKA00ESCA
3/8"	P3TFA23CBAN	20	72	42	P3TKA00ESCB
1/2"	P3TFA24CCAN	30	108	64	P3TKA00ESCC
3/4"	P3TFA26CDAN	60	216	127	P3TKA00ESCD
1 "	P3TFA28CEAN	110	396	233	P3TKA00ESCE
1.1/4"	P3TFA2ACEAN	110	396	233	P3TKA00ESCE
1.1/2"	P3TFA2BCFAN	160	576	339	P3TKA00ESCF
1.1/2"	P3TFA2BCGAN	220	792	466	P3TKA00ESCG
2"	P3TFA2CCHAN	330	1188	699	P3TKA00ESCH
2.1/2"	P3TFA2DCJAN	430	1548	911	P3TKA00ESCJ
3"	P3TFA2ECJAN	430	1548	911	P3TKA00ESCJ
2.1/2"	P3TFA2DCKAN	620	2232	1314	P3TKA00ESCK
3"	P3TFA2ECKAN	620	2232	1314	P3TKA00ESCK

Correction factors

Line pressure bar g	psi g	Correction factor
1	15	0.38
2	29	0.53
3	44	0.65
4	58	0.76
5	73	0.85
6	87	0.93
7	100	1.00
8	116	1.07
9	131	1.13
10	145	1.19
11	160	1.25
12	174	1.31
13	189	1.36
14	203	1.41
15	218	1.46
16	232	1.51

Filter selection example

Selecting a filter model to match a system flow rate and pressure.

Example: System flow 1050 m³/hr at a pressure of 8.5 bar g

1. Obtain pressure correction factor from table or calculate factor using method shown. Correction factor for 8.5 bar g = 1.10
2. Divide system flow by correction factor to give equivalent flow rate at 7 bar g
1050m³/hr ÷ 1.10 = 955 m³/hr (at 7 bar g)
3. Select a filter model from the above table with a flow rate above or equal to 955 m³/hr. Filter model selected : P3TFA2CCHAN
4. Select pipe connection & Thread type System uses 2" piping and BSP threads:
Model P3TFA2CCHAN

High Efficiency 0.01 µm Filtration

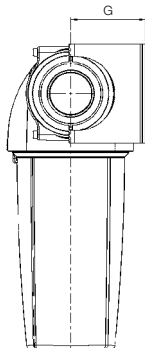
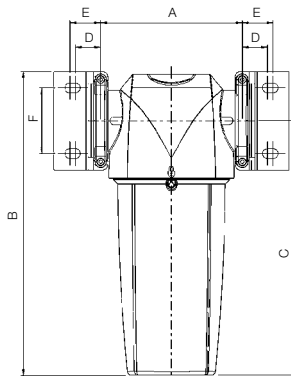
Technical data

Filter Grade	Drain type	Max operating pressure		Max recommended operating temp.		Min recommended operating temp.	
		bar g	psi g				
0.01 micron	Auto	16	232	80°C	176°F	1.5°C	35°F

Weights and dimensions

Optional Accessories

Port Size BSPT	Part Number	A		B		C		D		E		F		G		Weight		Modular Connection Kit	Wall Mounting Bracket Kit
		mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	kg	lbs		
1/4"	P3TFA22CAAN	76.0	3.0	181.5	7.2	153.0	6.0	18.0	0.71	24.5	0.96	30.0	1.18	52.0	2.05	0.4	0.9	P3TKA00CBA	P3TKA00MWA
3/8"	P3TFA23CBAN	97.5	3.8	235.0	9.3	201.0	7.9	20.5	0.81	25.5	1.00	40.0	1.57	60.0	2.36	1.0	2.2	P3TKA00CBB	P3TKA00MWB
1/2"	P3TFA24CCAN	97.5	3.8	235.0	9.3	201.0	7.9	20.5	0.81	25.5	1.00	40.0	1.57	60.0	2.36	1.0	2.2	P3TKA00CBB	P3TKA00MWB
3/4"	P3TFA26CDAN	129.0	5.1	275.0	10.8	232.5	9.2	23.0	0.91	28.0	1.10	60.0	2.36	68.0	2.68	2.2	4.8	P3TKA00CBD	P3TKA00MWD
1"	P3TFA28CEAN	129.0	5.1	364.5	14.3	322.0	12.7	23.0	0.91	28.0	1.10	60.0	2.36	68.0	2.68	2.6	5.7	P3TKA00CBD	P3TKA00MWD
1.1/4"	P3TFA2ACEAN	129.0	5.1	364.5	14.3	322.0	12.7	23.0	0.91	28.0	1.10	60.0	2.36	68.0	2.68	2.6	5.7	P3TKA00CBD	P3TKA00MWD
1.1/2"	P3TFA2BCFAN	170.0	6.7	432.5	17.0	382.5	15.1	32.0	1.26	39.0	1.54	84.0	3.31	92.0	3.62	4.5	9.9	P3TKA00CBF	P3TKA00MWF
1.1/2"	P3TFA2BCGAN	170.0	6.7	524.5	20.6	474.5	18.7	32.0	1.26	39.0	1.54	84.0	3.31	92.0	3.62	5.3	11.6	P3TKA00CBF	P3TKA00MWF
2"	P3TFA2CCHAN	170.0	6.7	524.5	20.6	474.5	18.7	32.0	1.26	39.0	1.54	84.0	3.31	92.0	3.62	5.3	11.6	P3TKA00CBF	P3TKA00MWF
2.1/2"	P3TFA2DCJAN	205.0	8.1	641.5	25.3	581.5	22.9	35.5	1.40	42.5	1.67	100.0	3.94	135.0	5.31	10.0	22.0	P3TKA00CBJ	P3TKA00MWJ
3"	P3TFA2ECJAN	205.0	8.1	641.5	25.3	581.5	22.9	35.5	1.40	42.5	1.67	100.0	3.94	135.0	5.31	10.0	22.0	P3TKA00CBJ	P3TKA00MWJ
2.1/2"	P3TFA2DCKAN	205.0	8.1	832.0	32.8	772.0	30.4	35.5	1.40	42.5	1.67	100.0	3.94	135.0	5.31	12.0	26.4	P3TKA00CBJ	P3TKA00MWJ
3"	P3TFA2ECKAN	205.0	8.1	832.0	32.8	772.0	30.4	35.5	1.40	42.5	1.67	100.0	3.94	135.0	5.31	12.0	26.4	P3TKA00CBJ	P3TKA00MWJ



DPI Kit

P3TKA00RQ

Incident Monitor

Used to indicate premature high differential pressure. Indicator can be retrofitted to existing housings without depressurising the system.



Modular Connection Kit

Fixing clamp allows quick and simple connection of multiple filter housings.



Wall Mounting Bracket Kit

Mounting brackets provide additional support to filters installed in flexible piping systems or OEM equipment.

Drain Kits

Auto drain P3TKA00DA

Manual drain P3TKA00DM

1 µm Filtration

Filtration Grade

Filtration type	Coalescing
Particle removal (inc water & oil aerosols)	Down to 1 micron
Max remaining oil content at 21°C	0.06 mg/m³ 0.05 ppm(w)
Filter efficiency	99.925%
Test methods used	ISO 8573.2 ISO 8573.4 ISO 12500-1
ISO 12500-1 Inlet Challenge concentration	40 mg/m³
Initial dry differential pressure	<70 mbar (2psi)
Initial saturated differential pressure	<140 mbar (3psi)
Change element every	12 months
Precede with filtration grade	1 micron Moduflex Coalescer



Product selection

Stated flows are for operation at 7 bar (g) with reference to 20°C, 1 bar (a), 0% relative water vapour pressure. For flows at other pressures apply the correction factors shown.

Port Size BSPT	Part Number	dm³/s	m³/hr	cfm	1 µm Replacement Element Kit
1/4"	P3TFA229AAN	10	36	21	P3TKA00ES9A
3/8"	P3TFA239BAN	20	72	42	P3TKA00ES9B
1/2"	P3TFA249CAN	30	108	64	P3TKA00ES9C
3/4"	P3TFA269DAN	60	216	127	P3TKA00ES9D
1 "	P3TFA289EAN	110	396	233	P3TKA00ES9E
1.1/4"	P3TFA2A9EAN	110	396	233	P3TKA00ES9E
1.1/2"	P3TFA2B9FAN	160	576	339	P3TKA00ES9F
1.1/2"	P3TFA2B9GAN	220	792	466	P3TKA00ES9G
2"	P3TFA2C9HAN	330	1188	699	P3TKA00ES9H
2.1/2"	P3TFA2D9JAN	430	1548	911	P3TKA00ES9J
3"	P3TFA2E9KAN	430	1548	911	P3TKA00ES9J
2.1/2"	P3TFA2D9KAN	620	2232	1314	P3TKA00ES9K
3"	P3TFA2E9KAN	620	2232	1314	P3TKA00ES9K

Correction factors

Line pressure bar g	psi g	Correction factor
1	15	0.38
2	29	0.53
3	44	0.65
4	58	0.76
5	73	0.85
6	87	0.93
7	100	1.00
8	116	1.07
9	131	1.13
10	145	1.19
11	160	1.25
12	174	1.31
13	189	1.36
14	203	1.41
15	218	1.46
16	232	1.51

Filter selection example

Selecting a filter model to match a system flow rate and pressure.

Example: System flow 1050 m³/hr at a pressure of 8.5 bar g

1. Obtain pressure correction factor from table or calculate factor using method shown. Correction factor for 8.5 bar g = 1.10
2. Divide system flow by correction factor to give equivalent flow rate at 7 bar g
1050m³/hr ÷ 1.10 = 955 m³/hr (at 7 bar g)
3. Select a filter model from the above table with a flow rate above or equal to 955 m³/hr. Filter model selected : P3TFA2C9HAN
4. Select pipe connection & Thread type System uses 2" piping and BSP threads: Model P3TFA2C9HAN

To find the correction factor for 8.5 bar g (122psi g) =

$$= \sqrt{\frac{\text{System Operating Pressure}}{\text{Nominal Pressure}}} = \sqrt{\frac{8.5 \text{ bar g}}{7 \text{ bar g}}} = 1.10$$

1 µm Filtration

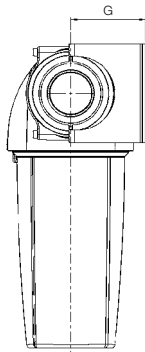
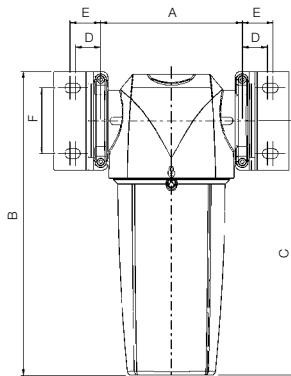
Technical data

Filter Grade	Drain type	Max operating pressure		Max recommended operating temp.		Min recommended operating temp.	
		bar g	psi g				
1 micron	Auto	16	232	80°C	176°F	1.5°C	35°F

Weights and dimensions

Optional Accessories

Port Size BSPT	Part Number	A		B		C		D		E		F		G		Weight		Modular Connection Kit	Wall Mounting Bracket Kit
		mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	kg	lbs		
1/4"	P3TFA229AAN	76.0	3.0	181.5	7.2	153.0	6.0	18.0	0.71	24.5	0.96	30.0	1.18	52.0	2.05	0.4	0.9	P3TKA00CBA	P3TKA00MWA
3/8"	P3TFA239BAN	97.5	3.8	235.0	9.3	201.0	7.9	20.5	0.81	25.5	1.00	40.0	1.57	60.0	2.36	1.0	2.2	P3TKA00CBB	P3TKA00MWB
1/2"	P3TFA249CAN	97.5	3.8	235.0	9.3	201.0	7.9	20.5	0.81	25.5	1.00	40.0	1.57	60.0	2.36	1.0	2.2	P3TKA00CBB	P3TKA00MWB
3/4"	P3TFA269DAN	129.0	5.1	275.0	10.8	232.5	9.2	23.0	0.91	28.0	1.10	60.0	2.36	68.0	2.68	2.2	4.8	P3TKA00CBD	P3TKA00MWD
1"	P3TFA289EAN	129.0	5.1	364.5	14.3	322.0	12.7	23.0	0.91	28.0	1.10	60.0	2.36	68.0	2.68	2.6	5.7	P3TKA00CBD	P3TKA00MWD
1.1/4"	P3TFA2A9EAN	129.0	5.1	364.5	14.3	322.0	12.7	23.0	0.91	28.0	1.10	60.0	2.36	68.0	2.68	2.6	5.7	P3TKA00CBD	P3TKA00MWD
1.1/2"	P3TFA2B9FAN	170.0	6.7	432.5	17.0	382.5	15.1	32.0	1.26	39.0	1.54	84.0	3.31	92.0	3.62	4.5	9.9	P3TKA00CBF	P3TKA00MWF
1.1/2"	P3TFA2B9GAN	170.0	6.7	524.5	20.6	474.5	18.7	32.0	1.26	39.0	1.54	84.0	3.31	92.0	3.62	5.3	11.6	P3TKA00CBF	P3TKA00MWF
2"	P3TFA2C9HAN	170.0	6.7	524.5	20.6	474.5	18.7	32.0	1.26	39.0	1.54	84.0	3.31	92.0	3.62	5.3	11.6	P3TKA00CBF	P3TKA00MWF
2.1/2"	P3TFA2D9JAN	205.0	8.1	641.5	25.3	581.5	22.9	35.5	1.40	42.5	1.67	100.0	3.94	135.0	5.31	10.0	22.0	P3TKA00CBJ	P3TKA00MWJ
3"	P3TFA2E9KAN	205.0	8.1	641.5	25.3	581.5	22.9	35.5	1.40	42.5	1.67	100.0	3.94	135.0	5.31	10.0	22.0	P3TKA00CBJ	P3TKA00MWJ
2.1/2"	P3TFA2D9KAN	205.0	8.1	832.0	32.8	772.0	30.4	35.5	1.40	42.5	1.67	100.0	3.94	135.0	5.31	12.0	26.4	P3TKA00CBJ	P3TKA00MWJ
3"	P3TFA2E9KAN	205.0	8.1	832.0	32.8	772.0	30.4	35.5	1.40	42.5	1.67	100.0	3.94	135.0	5.31	12.0	26.4	P3TKA00CBJ	P3TKA00MWJ



DPI Kit

P3TKA00RQ

Incident Monitor

Used to indicate premature high differential pressure. Indicator can be retrofitted to existing housings without depressurising the system.



Modular Connection Kit

Fixing clamp allows quick and simple connection of multiple filter housings.



Wall Mounting Bracket Kit

Mounting brackets provide additional support to filters installed in flexible piping systems or OEM equipment.

Drain Kits

Auto drain P3TKA00DA

Manual drain P3TKA00DM

Oil Vapour Removal Filter

Filtration Grade

Filtration type	Oil vapour removal
Particle removal (inc water & oil aerosols)	N/A
Max remaining oil content at 21°C	0.003 mg/m ³ 0.003 ppm(w)
Filter efficiency	N/A
Test methods used	ISO 8573.5
ISO 12500-1 Inlet Challenge concentration	N/A
Initial dry differential pressure	<200 mbar (3psi)
Initial saturated differential pressure	N/A
Change element every	When oil vapour is detected
Precede with filtration grade	0.01 micron Moduflex Coalescer filter



Product selection

Stated flows are for operation at 7 bar (g) with reference to 20°C, 1 bar (a), 0% relative water vapour pressure. For flows at other pressures apply the correction factors shown.

Port Size BSPT	Part Number	dm ³ /s	m ³ /hr	cfm	Oil vapour removal Replacement Element Kit
1/4"	P3TFA22AAMN	10	36	21	P3TKA00ESAA
3/8"	P3TFA23ABMN	20	72	42	P3TKA00ESAB
1/2"	P3TFA24ACMN	30	108	64	P3TKA00ESAC
3/4"	P3TFA26ADMN	60	216	127	P3TKA00ESAD
1 "	P3TFA28AEMN	110	396	233	P3TKA00ESAE
1.1/4"	P3TFA2AAEMN	110	396	233	P3TKA00ESAE
1.1/2"	P3TFA2BAFMN	160	576	339	P3TKA00ESAF
1.1/2"	P3TFA2BAGMN	220	792	466	P3TKA00ESAG
2"	P3TFA2CAHMN	330	1188	699	P3TKA00ESAH
2.1/2"	P3TFA2DAJMN	430	1548	911	P3TKA00ESAJ
3"	P3TFA2EAJMN	430	1548	911	P3TKA00ESAJ
2.1/2"	P3TFA2DAKMN	620	2232	1314	P3TKA00ESAK
3"	P3TFA2EAKMN	620	2232	1314	P3TKA00ESAK

Correction factors

Line pressure bar g	psi g	Correction factor
1	15	0.38
2	29	0.53
3	44	0.65
4	58	0.76
5	73	0.85
6	87	0.93
7	100	1.00
8	116	1.07
9	131	1.13
10	145	1.19
11	160	1.25
12	174	1.31
13	189	1.36
14	203	1.41
15	218	1.46
16	232	1.51
17	247	1.56
18	261	1.60
19	275	1.65
20	290	1.70

Filter selection example

Selecting a filter model to match a system flow rate and pressure.

Example: System flow 1050 m³/hr at a pressure of 8.5 bar g

1. Obtain pressure correction factor from table or calculate factor using method shown. Correction factor for 8.5 bar g = 1.10
2. Divide system flow by correction factor to give equivalent flow rate at 7 bar g
1050m³/hr ÷ 1.10 = 955 m³/hr (at 7 bar g)
3. Select a filter model from the above table with a flow rate above or equal to 955 m³/hr. Filter model selected : P3TFA2CAHMN
4. Select pipe connection & Thread type System uses 2" piping and BSP threads:
Model P3TFA2CAHMN

To find the correction factor for 8.5 bar g (122psi g) =

$$= \sqrt{\frac{\text{System Operating Pressure}}{\text{Nominal Pressure}}} = \sqrt{\frac{8.5 \text{ bar g}}{7 \text{ bar g}}} = 1.10$$

Oil Vapour Removal Filter

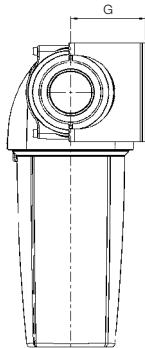
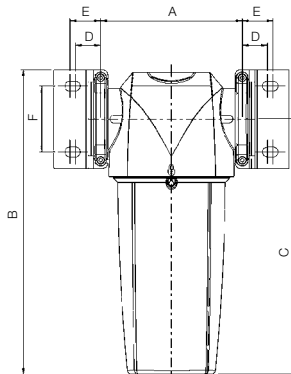
Technical data

Filter Grade	Drain type	Max operating pressure		Max recommended operating temp.		Min recommended operating temp.	
		bar g	psi g				
Oil vapour removal	Manual	20	290	100°C	212°F	1.5°C	35°F

Weights and dimensions

Optional Accessories

Port Size BSPT	Part Number	A		B		C		D		E		F		G		Weight		Modular Connection Kit	Wall Mounting Bracket Kit
		mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	kg	lbs		
1/4"	P3TFA22AAMN	76.0	3.0	181.5	7.2	153.0	6.0	18.0	0.71	24.5	0.96	30.0	1.18	52.0	2.05	0.4	0.9	P3TKA00CBA	P3TKA00MWA
3/8"	P3TFA23ABMN	97.5	3.8	235.0	9.3	201.0	7.9	20.5	0.81	25.5	1.00	40.0	1.57	60.0	2.36	1.0	2.2	P3TKA00CBB	P3TKA00MWB
1/2"	P3TFA24ACMN	97.5	3.8	235.0	9.3	201.0	7.9	20.5	0.81	25.5	1.00	40.0	1.57	60.0	2.36	1.0	2.2	P3TKA00CBB	P3TKA00MWB
3/4"	P3TFA26ADMN	129.0	5.1	275.0	10.8	232.5	9.2	23.0	0.91	28.0	1.10	60.0	2.36	68.0	2.68	2.2	4.8	P3TKA00CBD	P3TKA00MWD
1"	P3TFA28AEMN	129.0	5.1	364.5	14.3	322.0	12.7	23.0	0.91	28.0	1.10	60.0	2.36	68.0	2.68	2.6	5.7	P3TKA00CBD	P3TKA00MWD
1.1/4"	P3TFA2AAEMN	129.0	5.1	364.5	14.3	322.0	12.7	23.0	0.91	28.0	1.10	60.0	2.36	68.0	2.68	2.6	5.7	P3TKA00CBD	P3TKA00MWD
1.1/2"	P3TFA2BAFMN	170.0	6.7	432.5	17.0	382.5	15.1	32.0	1.26	39.0	1.54	84.0	3.31	92.0	3.62	4.5	9.9	P3TKA00CBF	P3TKA00MWF
1.1/2"	P3TFA2BAGMN	170.0	6.7	524.5	20.6	474.5	18.7	32.0	1.26	39.0	1.54	84.0	3.31	92.0	3.62	5.3	11.6	P3TKA00CBF	P3TKA00MWF
2"	P3TFA2CAHMN	170.0	6.7	524.5	20.6	474.5	18.7	32.0	1.26	39.0	1.54	84.0	3.31	92.0	3.62	5.3	11.6	P3TKA00CBF	P3TKA00MWF
2.1/2"	P3TFA2DAJMN	205.0	8.1	641.5	25.3	581.5	22.9	35.5	1.40	42.5	1.67	100.0	3.94	135.0	5.31	10.0	22.0	P3TKA00CBJ	P3TKA00MWJ
3"	P3TFA2EAJMN	205.0	8.1	641.5	25.3	581.5	22.9	35.5	1.40	42.5	1.67	100.0	3.94	135.0	5.31	10.0	22.0	P3TKA00CBJ	P3TKA00MWJ
2.1/2"	P3TFA2DAKMN	205.0	8.1	832.0	32.8	772.0	30.4	35.5	1.40	42.5	1.67	100.0	3.94	135.0	5.31	12.0	26.4	P3TKA00CBJ	P3TKA00MWJ
3"	P3TFA2EAKMN	205.0	8.1	832.0	32.8	772.0	30.4	35.5	1.40	42.5	1.67	100.0	3.94	135.0	5.31	12.0	26.4	P3TKA00CBJ	P3TKA00MWJ



Modular Connection Kit

Fixing clamp allows quick and simple connection of multiple filter housings.



Wall Mounting Bracket Kit

Mounting brackets provide additional support to filters installed in flexible piping systems or OEM equipment.

Drain Kits

Auto drain P3TKA00DA

Manual drain P3TKA00DM

High Efficiency Bulk Liquid Removal

- Tested in accordance with ISO 8573.9
- Performance independently verified by Lloyds Register
- High liquid removal efficiencies at all flow conditions
- Low pressure losses for low operational costs
- Multiple port sizes for a given flow rate provides increased flexibility during installation
- Suitable for variable flow compressors
- Works with all types of compressor and compressor condensate
- Low maintenance
- 10 Year Housing Guarantee

Typical Applications

- Bulk liquid removal at any point in a compressed air system
- Protection of refrigeration and adsorption dryer pre-filtration
- Liquid removal from compressor inter-coolers / after-coolers
- Liquid separation within refrigeration dryers



Product selection

Stated flows are for operation at 7 bar (g) with reference to 20°C, 1 bar (a), 0% relative water vapour pressure.

Correction factors

Port Size	Part Number	dm³/s	m³/hr	cfm	Max operating pressure		Max Operating temperature		Min Operating temperature		Line pressure		
					bar g	psi g					bar g	psi g	factor
1/4"	P3TFA22WAAN	10	36	21	16	232	80 C	176 F	1.5 C	35 F	1	15	0.25
											2	29	0.38
3/8"	P3TFA23WBAN	40	144	85	16	232	80 C	176 F	1.5 C	35 F	3	44	0.50
											4	58	0.63
1/2"	P3TFA24WCAN	40	144	85	16	232	80 C	176 F	1.5 C	35 F	5	73	0.75
											6	87	0.88
3/4"	P3TFA26WDAN	110	396	233	16	232	80 C	176 F	1.5 C	35 F	7	100	1.00
											8	116	1.06
1"	P3TFA28WEAN	110	396	233	16	232	80 C	176 F	1.5 C	35 F	9	131	1.12
											10	145	1.17
1.1/4"	P3TFA2AWFAN	350	1260	742	16	232	80 C	176 F	1.5 C	35 F	11	160	1.22
											12	174	1.27
1.1/2"	P3TFA2BWGAN	350	1260	742	16	232	80 C	176 F	1.5 C	35 F	13	189	1.32
											14	203	1.37
2"	P3TFA2CWHAN	350	1260	742	16	232	80 C	176 F	1.5 C	35 F	15	218	1.41
											16	232	1.46
2.1/2"	P3TFA2DWKAN	800	2880	1695	16	232	80 C	176 F	1.5 C	35 F			
3"	P3TFA2EWKAN	800	2880	1695	16	232	80 C	176 F	1.5 C	35 F			

Filter selection example

Selecting a Water Separator model to match a system flow rate and pressure.

Example: System flow 1050 m³/hr at a pressure of 8 bar g

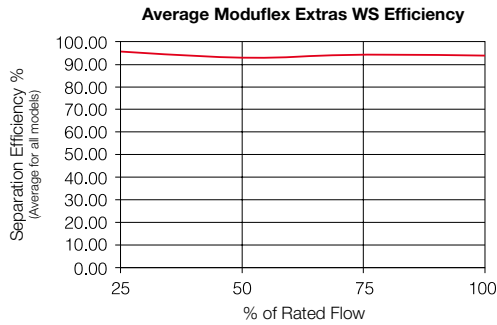
1. Obtain pressure correction factor from table.
Correction factor for 8 bar g = 1.06
2. Divide system flow by correction factor to give equivalent flow rate at 7 bar g
1050 m³/hr ÷ 1.06 = 984 m³/hr (at 7 bar g)
3. Select a filter model from the above table with a flow rate above or equal to 984 m³/hr. Suitable Water Separator models : P3TFA2AWFAN
P3TFA2AWGAN
P3TFA2AWHAN
4. Select pipe connection & Thread type
System uses 1.1/2" piping and BSP threads: Model P3TFA2BWGAN

To find the correction factor for 8 bar g =

$$= \sqrt{\frac{\text{System Operating Pressure}}{\text{Nominal Pressure}}} = \sqrt{\frac{8 \text{ bar g}}{7 \text{ bar g}}} = 1.06$$

High Efficiency Bulk Liquid Removal

Separation Efficiency

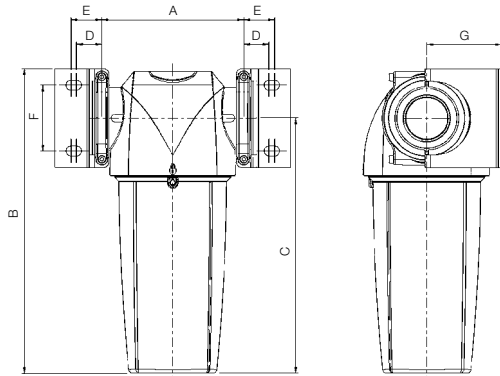


Tested with an inlet challenge concentration of 33ml/m3hr and in accordance with ISO 8573.9. Performance shown is an average for all models in range. Individual model performance available on request.

Weights and dimensions

Optional Accessories

Port Size BSPT	Part Number	A		B		C		D		E		F		G		Weight		Modular Connection Kit	Wall Mounting Bracket Kit
		mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	kg	lbs		
1/4"	P3TFA22WAAN	76.0	3.0	181.5	7.2	153.0	6.0	18.0	0.71	24.5	0.96	30.0	1.18	52.0	2.05	0.4	0.9	P3TKA00CBA	P3TKA00MWA
3/8"	P3TFA23WBAN	97.5	3.8	235.0	9.3	201.0	7.9	20.5	0.81	25.5	1.00	40.0	1.57	60.0	2.36	1.0	2.2	P3TKA00CBB	P3TKA00MWB
1/2"	P3TFA24WCAN	97.5	3.8	235.0	9.3	201.0	7.9	20.5	0.81	25.5	1.00	40.0	1.57	60.0	2.36	1.0	2.2	P3TKA00CBB	P3TKA00MWB
3/4"	P3TFA26WDAN	129.0	5.1	275.0	10.8	232.5	9.2	23.0	0.91	28.0	1.10	60.0	2.36	68.0	2.68	2.2	4.8	P3TKA00CBD	P3TKA00MWD
1"	P3TFA28WEAN	129.0	5.1	364.5	14.3	322.0	12.7	23.0	0.91	28.0	1.10	60.0	2.36	68.0	2.68	2.6	5.7	P3TKA00CBD	P3TKA00MWD
1.1/4"	P3TFA2BWFAN	170.0	6.7	432.5	17.0	382.5	15.1	32.0	1.26	39.0	1.54	84.0	3.31	92.0	3.62	4.5	9.9	P3TKA00CBF	P3TKA00MWF
1.1/2"	P3TFA2BWGAN	170.0	6.7	524.5	20.6	474.5	18.7	32.0	1.26	39.0	1.54	84.0	3.31	92.0	3.62	5.3	11.6	P3TKA00CBF	P3TKA00MWF
2"	P3TFA2CWHAN	170.0	6.7	524.5	20.6	474.5	18.7	32.0	1.26	39.0	1.54	84.0	3.31	92.0	3.62	5.3	11.6	P3TKA00CBF	P3TKA00MWF
2.1/2"	P3TFA2DWHAN	205.0	8.1	832.0	32.8	772.0	30.4	35.5	1.40	42.5	1.67	100.0	3.94	135.0	5.31	12.0	26.4	P3TKA00CBJ	P3TKA00MWJ
3"	P3TFA2EWKAN	205.0	8.1	832.0	32.8	772.0	30.4	35.5	1.40	42.5	1.67	100.0	3.94	135.0	5.31	12.0	26.4	P3TKA00CBJ	P3TKA00MWJ



Modular Connection Kit

Fixing clamp allows quick and simple connection of multiple filter housings.



Wall Mounting Bracket Kit

Mounting brackets provide additional support to filters installed in flexible piping systems or OEM equipment.

Selection Criteria

To correctly select the dryer best suited for your application, the following details are required to ensure optimum performance and trouble free operation.

- **Maximum Inlet Flow.**
- **Minimum Inlet Pressure.**
- **Maximum Inlet Temperature.**

Once these operating parameters have been established, you can select the most economical Moduflex Dry Air System for your application.



Technical Specifications

Flow Range:	85 L/min to 567 L/min at 7 bar
Minimum Operating Pressure:	4 bar
Maximum Operating Pressure:	12 bar
Minimum Operating Temperature:	1.5°C
Maximum Inlet Temperature:	50°C
Noise Level (Average):	≤ 70dB(A)
Pressure Dewpoint (Standard):	-40°C pdp
(Optional):	-70°C pdp
Standard Electrical Supply:	230/1ph/50Hz (Tolerance +/- 10%)
	115/1ph/60Hz (Tolerance +/- 10%)
Controls:	Electronic Control Timer
Inlet Connections:	G3/8
Outlet Connections:	G3/8

Ordering Information

P3

T

J

A

3

A

N

Thread type	
1	BSPP
9	NPT

Size	
1	
2	
3	
4	
5	
6	
7	

Supply Voltage	
A	(230 V AC)
C	(24 V AC)
J	(110 V AC)

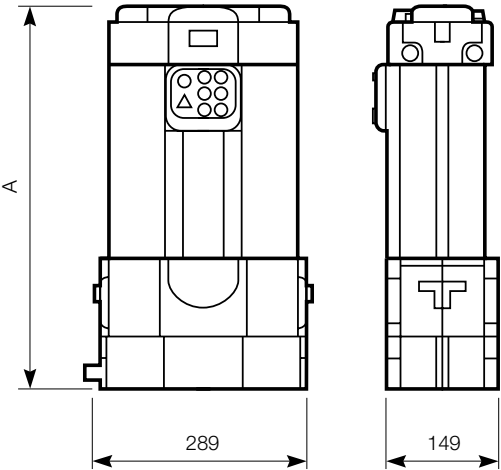
NOTE: BOLD OPTIONS ARE STANDARD.

Standard nominal flow rate qnN (NL/min) at pressure dew point -40°C

Model	Port Size	Max inlet temperature	Inlet Pressure (bar)								
			4	5	6	7	8	9	10	11	12
P3TJA13A1AN	3/8"	20°C	53	63	75	85	82	92	100	110	118
	3/8"	35°C	33	47	66	85	80	99	118	142	165
	3/8"	40°C	32	46	64	82	77	97	114	138	160
	3/8"	45°C	29	42	58	75	70	87	104	125	145
	3/8"	50°C	24	35	48	62	58	73	86	103	142
P3TJA13A2AN	3/8"	20°C	90	107	125	142	137	153	167	183	198
	3/8"	35°C	57	80	110	142	133	165	197	236	277
	3/8"	40°C	55	78	106	138	129	161	190	229	269
	3/8"	45°C	50	71	96	125	116	145	174	209	244
	3/8"	50°C	41	59	80	104	97	121	144	172	238
P3TJA13A3AN	3/8"	20°C	143	170	200	277	220	245	267	292	317
	3/8"	35°C	90	128	176	227	213	265	315	377	444
	3/8"	40°C	87	124	170	220	207	257	304	365	431
	3/8"	45°C	79	112	154	200	187	233	278	333	390
	3/8"	50°C	66	94	128	166	156	194	230	274	380
P3TJA13A4AN	3/8"	20°C	178	213	250	283	275	307	335	365	397
	3/8"	35°C	112	160	220	283	267	332	395	471	556
	3/8"	40°C	109	155	213	275	259	322	382	456	540
	3/8"	45°C	98	141	193	249	234	292	348	416	488
	3/8"	50°C	82	117	160	207	195	243	288	343	476
P3TJA13A5AN	3/8"	20°C	232	277	323	368	357	398	435	475	515
	3/8"	35°C	146	208	284	368	346	430	513	613	721
	3/8"	40°C	142	202	275	357	336	418	496	594	700
	3/8"	45°C	128	183	249	324	303	378	452	542	633
	3/8"	50°C	107	152	207	269	253	314	374	447	618
P3TJA13A6AN	3/8"	20°C	268	318	373	425	412	458	502	548	595
	3/8"	35°C	169	239	328	425	400	495	592	707	833
	3/8"	40°C	163	232	317	412	387	481	572	685	809
	3/8"	45°C	147	210	287	374	350	435	522	625	732
	3/8"	50°C	123	175	239	310	293	362	432	515	714
P3TJA13A7AN	3/8"	20°C	357	425	498	567	550	612	668	732	793
	3/8"	35°C	225	319	438	567	534	661	788	944	1110
	3/8"	40°C	218	310	423	550	517	643	762	915	1078
	3/8"	45°C	196	281	383	499	468	581	695	834	975
	3/8"	50°C	164	234	319	414	391	483	574	688	952

Weights and Dimensions

Model	Dimensions mm (ins) A	Weight kg (lbs)
P3TJA13A1AN	422 (16.6)	11 (24.2)
P3TJA13A2AN	500 (19.7)	13 (28.7)
P3TJA13A3AN	616 (24.2)	16 (35.3)
P3TJA13A4AN	692 (27.2)	18 (39.7)
P3TJA13A5AN	847 (33.3)	20 (44.1)
P3TJA13A6AN	906 (35.7)	23 (50.7)
P3TJA13A7AN	1098 (43.2)	28 (61.7)



Service Kits

Model	Service Kit
P3TJA13A1AN	P3TKA00JA1
P3TJA13A2AN	P3TKA00JA2
P3TJA13A3AN	P3TKA00JA3
P3TJA13A4AN	P3TKA00JA4
P3TJA13A5AN	P3TKA00JA5
P3TJA13A6AN	P3TKA00JA6
P3TJA13A7AN	P3TKA00JA7

Mounting Kits

Description	Kit
Fixed Wall Mounting Bracket	P3TKA00MJ
45° Tilt Wall Mounting Bracket	P3TKA00MK

- Very fast response times
- Accurate output pressure
- Micro parameter settings
- Selectable I/O parameters
- Quick, full flow exhaust
- LED display indicates output pressure
- No air consumption in steady state
- Multiple mounting options
- Protection to IP65
- P31P flows to 19 dm³/s (40 scfm)
- P32P flows to 57 dm³/s (120 scfm)

P31PA Series
Bottom exhaustP32PA Series
Bottom exhaust

Order Key

P 3	P A					2			1 A
Port size Global Mini (1/4") 1 Global Compact (1/2") 2		Thread type BSPP 1 NPT 9		Port size Global Mini (1/4") 2 Global Compact (1/2") 4		Pressure Range 0 - 2 bar Z 0 - 7 bar S 0 - 10 bar D		Power supply 24 volts 2	
Version Bottom ported exhaust NC A Bottom ported forced exhaust (NO) * E		Control Signal 0-10 V V 4-20 mA A		Output Signal Digital, PNP 1) D PNP or 0-10V 2) P NPN or 0-10V 3) N 4-20mA fixed 4) M		Input connector M12 (4 pin) 1			

* When the supply voltage is lost the unit will automatically exhaust the regulated pressure to 0 bar (atmospheric pressure)

1) Digital PNP output only, no analogue output selectable

2) Digital PNP and analogue 0-10V outputs selectable, by means of parameter 6. (Factory default 0-10V)

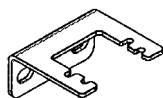
3) Digital NPN and analogue 0-10 V outputs selectable by means of parameter 6. (Factory default 0-10V)

4) Analogue 4-20mA output only.

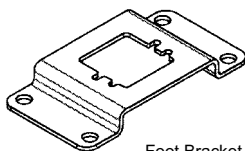
Note: On all analogue outputs the F.S. value can be adjusted by means of parameter 8

P31P Mounting brackets

Order Code	Description
P3HKA00ML	L-Bracket mounting kit
P3HKA00MC	Foot bracket mounting kit



L-Bracket



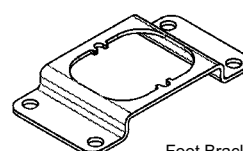
Foot Bracket

P32P Mounting brackets

Order Code	Description
P3KKA00ML	L-Bracket mounting kit
P3KKA00MC	Foot bracket mounting kit



L-Bracket



Foot Bracket

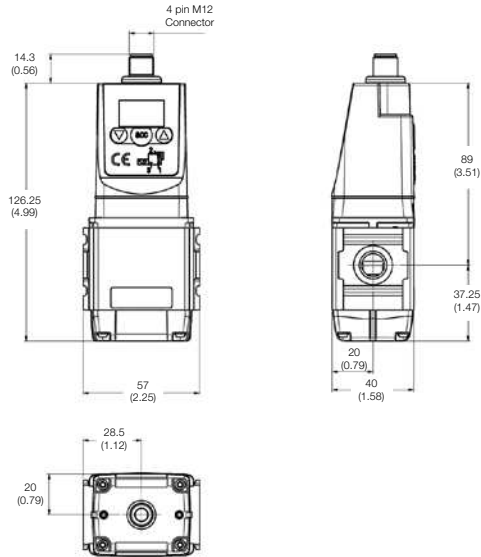
Cables

Order Code	Description
P8L-MC04A2A-M12	2 mtr. cable with moulded straight M12x1 connector
P8L-MC04R2A-M12	2 mtr. cable with moulded 90 degree M12x1 connector.

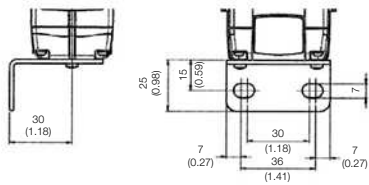
Note:

These brackets fit both Proportional Regulators and Combined Soft Start & Dump Valves.
Dimensions see page: 61

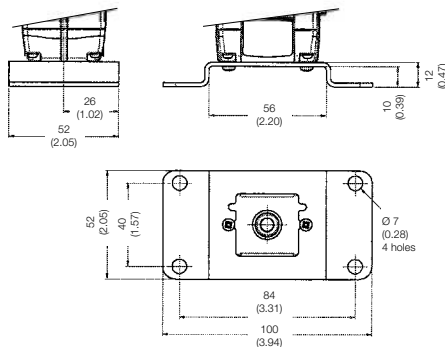
P31P



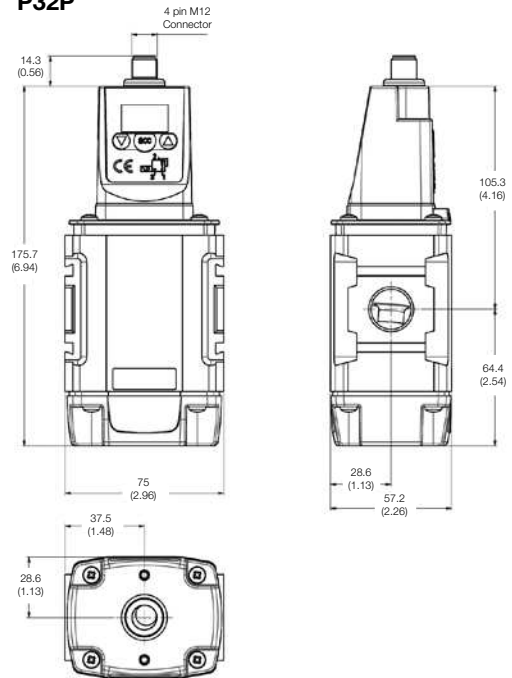
L-Bracket



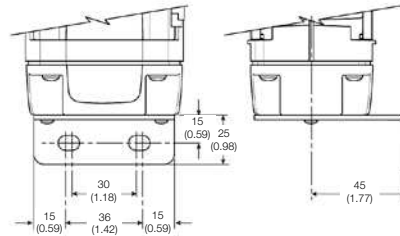
Foot Bracket



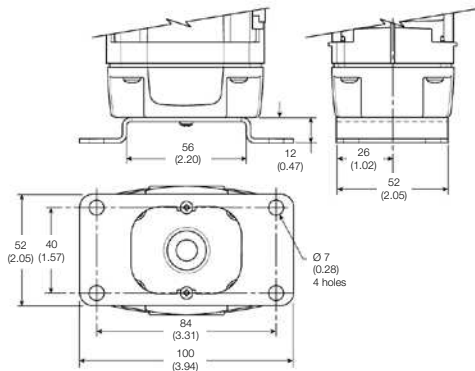
P32P



L-Bracket



Foot Bracket



Dimensions are in mm (Inches)

Lucifer® EPP4 Basic and Comfort 1/4" and 1/2" Technical Data

Fluids:	Lubricated or non lubricated air and neutral gases Recommended filtration: 50 µm
Temperature range:	Ambient: 0 to +50 °C Fluid: 0 to +50 °C
Inlet pressure range:	1 to 12 bar (the inlet pressure must always be at least 1 bar above the regulated pressure)
Outlet pressure range:	0.05 to 10 bar
Hysteresis:	± 50 mbar (factory set up)
Air consumption at constant control signal:	0
Supply voltage:	24 V DC ± 15 % (Max. ripple 1 V)
Power consumption:	Max. 2.8 W with 24 V DC and constant changes of the control signal < 1.5 W without change of control signal
Control signal:	Analog 0 - 10 V; standard for 0 - 10 bar; adjustable for Comfort versions Analog 4 - 20 mA; standard for 0 - 10 bar; adjustable for Comfort versions
Outlet sensor signal: (Comfort versions only)	Analog 0 - 10 V; standard for 0 - 10 bar; adjustable Analog 4 - 20 mA; standard for 0 - 10 bar; adjustable Digital 0/24 V for alarm features: ■ Adjustable pressure error (+/-) ■ Adjustable delay ON ■ Adjustable delay OFF ■ Adjustable logic (+/-)
Max. flow:	G1/4: 70 m³/h G1/2: 150 m³/h
Indicative response time:	With a volume of 330 cm³ at the outlet of the regulator
Filling 2 to 4 bar:	G1/4 ~ 50 msec G1/2 ~ 60 msec
Filling 2 to 8 bar:	G1/4 ~ 100 msec G1/2 ~ 120 msec
Emptying 4 to 2 bar:	G1/4 ~ 70 msec G1/2 ~ 90 msec
Emptying 8 to 2 bar:	G1/4 ~ 130 msec G1/2 ~ 190 msec
Safety position:	In case of control signal failure or if it is less than 50mV, the regulated pressure drops automatically to 0 bar (atmospheric pressure). In case of voltage supply failure, the regulated pressure will be kept constant.
Electrical connection:	Basic: M12 - 4 pin; male connector power supply/control signal Comfort: M12 - 8 pin; male connector power supply/control signal M12 - 5 pin; male connector communication
Life expectancy:	> 50 Mio changes of control signal steps
Mounting position:	Indifferent (recommended position: upright; electronic part on top)
Resistance to vibrations:	30 g in all directions
Protection index:	IP 65
Assembly:	Silicone free
Electromagnetic compatibility:	In accordance with EN 61000-6-1: 2001 EN 61000-6-2: 2001 EN 61000-6-3: 2001 + A11 2004 edition (01/07/07) EN 61000-6-4: 2001

Note: Parker reserves the right to change specifications without notification.

Lucifer® EPP4 Comfort 1/2" High Pressure, 1" and 2" Technical Data

Fluids:	Lubricated or non lubricated air and neutral gases Recommended filtration: 50 µm		
Temperature range:	Ambient: 0 to +50 °C Fluid: 0 to +50 °C		
Inlet pressure range:	1 to 12 bar - 1 to 14 bar - 1 to 21 bar (the inlet pressure must always be at least 1 bar above the regulated pressure)		
Outlet pressure range:	0.05 to 10 bar, 0.1 to 1 bar, 0.1 to 20 bar		
Hysteresis:	≤ 100 mbar if P inlet ≤ 10 bar ≤ 200 mbar if P inlet > 10 bar		
Air consumption at constant control signal:	None		
Supply voltage:	24 V DC ± 15 % (Max. ripple 1 V)		
Power consumption:	Max. 6 W with 24 V DC and constant changes of the control signal < 2 W without change of control signal		
Control signal:	Analog 0 - 10 V; standard for 0 - 10 bar; adjustable Analog 4 - 20 mA; standard for 0 - 10 bar; adjustable		
Outlet sensor signal:	Analog 0 - 10 V ; standard for 0 - 10 bar; adjustable Analog 4 - 20 mA ; standard for 0 - 10 bar; adjustable Digital 0/24 V for alarm features: ■ Adjustable pressure error (+/-) ■ Adjustable delay ON ■ Adjustable delay OFF ■ Adjustable logic (+/-)		
Max. flow:	G1/2": 150 m³/h - G1": 1 000 m³/h - G2">2 700 m³/h		
Indicative response time:	With a volume of 330 cm³ at the outlet of the regulator		
Filling 2 to 8 bar:	G1/2"	G1"	G2"
Emptying 8 to 2 bar:	~120 msec	~250 msec	~250 msec
	~190 msec	~400 msec	~400 msec
Safety position:	In case of control signal failure or if it is less than 50mV, the regulated pressure drops automatically to 0 bar atmospheric pressure (for pressure ranges from 0-10bar, 100mV for pressure range over 10 bar). In case of voltage supply failure, the regulated pressure will be kept constant.		
Electrical connection:	M12 - 8 pin; male connector power supply/control signal M12 - 5 pin; male connector communication		
Life expectancy:	> 20 Mio changes of control signal steps		
Mounting position:	Indifferent (recommended position: upright; electronic part on top)		
Resistance to vibrations:	30 g in all directions		
Protection index:	IP 65		
Assembly:	Silicone free		
Electromagnetic compatibility:	In accordance with	EN 61000-6-1: 2001 EN 61000-6-2: 2001 EN 61000-6-3: 2001 + A11 2004 edition (01/07/07) EN 61000-6-4: 2001	

Note: Parker reserves the right to change specifications without notification.



EPP4 Pressure Regulator Basic G 1/4" and G 1/2"

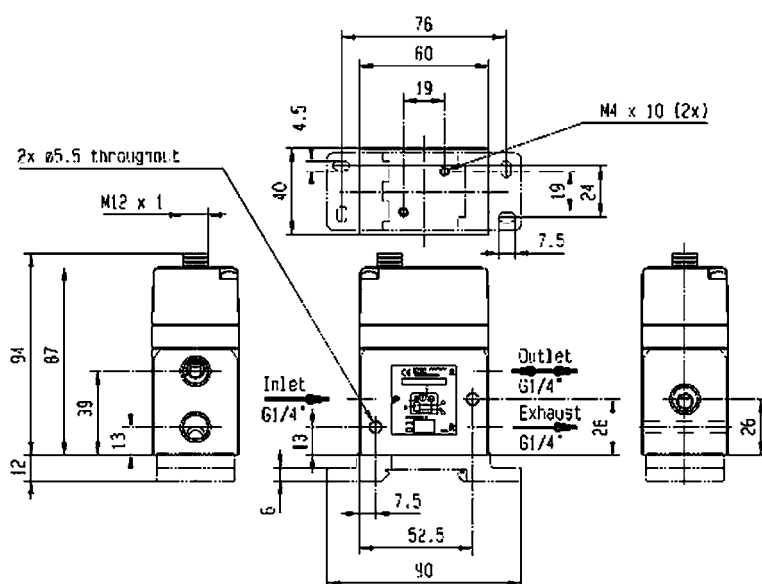
Reference	Pipe	Pressure range (bar)	Control signal (see options)
P4BG2001A002	G 1/4	0 - 10 V	0 - 10 bar
P4BG2001A003	G 1/4	4 - 20 mA	0 - 10 bar
P4BG2001A004	G 1/4	0 - 10 V	0 - 6 bar
P4BG2001A005	G 1/4	4 - 20 MA	0 - 6 bar
P4BG2001A006	G 1/4	0 - 10 V	0 - 5 bar
P4BG2001A007	G 1/4	4 - 20 MA	0 - 5 bar
P4BG2001A008	G 1/4	0 - 10 V	0 - 7 bar
P4BG2001A009	G 1/4	4 - 20 MA	0 - 7 bar
P4BG4001A002	G 1/2	0 - 10V	0 – 10 BAR
P4BG4001A003	G 1/2	4 - 20MA	0 – 10 BAR
P4BG4001A004	G 1/2	0 - 10V	0 – 6 BAR
P4BG4001A005	G 1/2	4 - 20MA	0 – 6 BAR
P4BG4001A008	G 1/2	0 - 10V	0 – 7 BAR
P4BG4001A009	G 1/2	4 - 20MA	0 – 7 BAR

Ask your agent for any specific calibration.
Ask your agent for the NPT version.
Cable + connector not included.

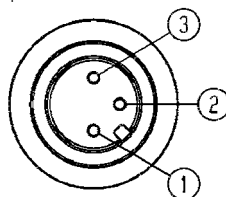
EPP4 Pressure Regulator Basic G 1/4"



Dimensions

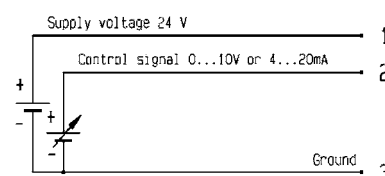


The male connector adopted on the EPP4 is a standard 4 pole M12, without the pin number 4:



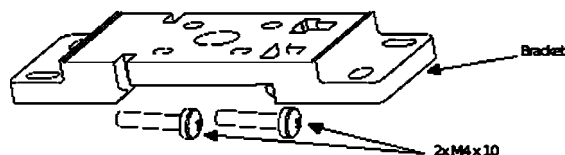
The female connector to mount is the 4 pole M12 connector (IEC 61076-2-101 model LF) where the pin number 4 is not connected.

ELECTRICAL CONNECTION



Accessories

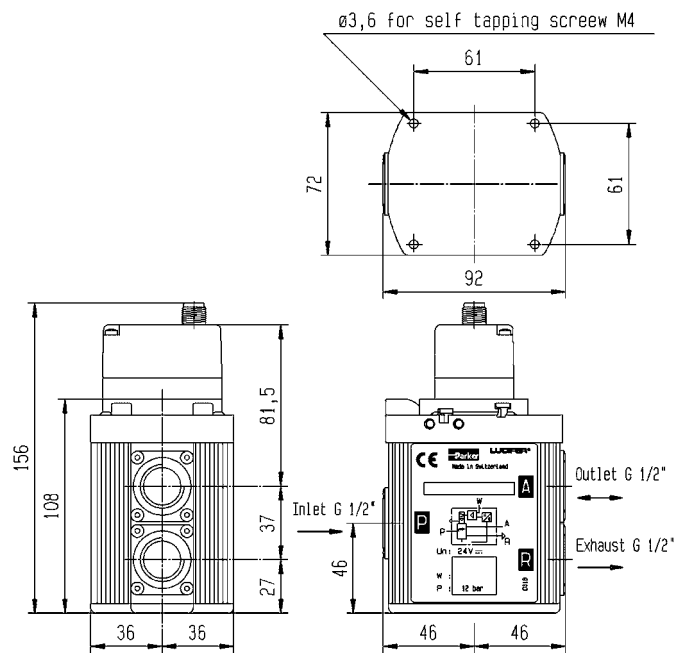
Mounting bracket
(automatically supplied with each EPP4)



EPP4 Pressure Regulator Basic G 1/2"



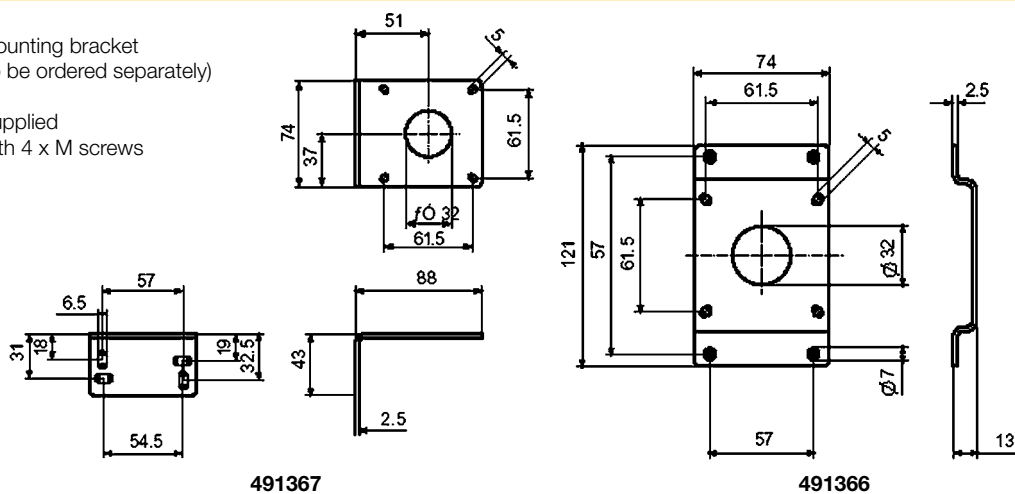
Dimensions



Accessories

Mounting bracket
(to be ordered separately)

Supplied
with 4 x M screws



Lucifer® EPP4 Comfort Options

Calys Software

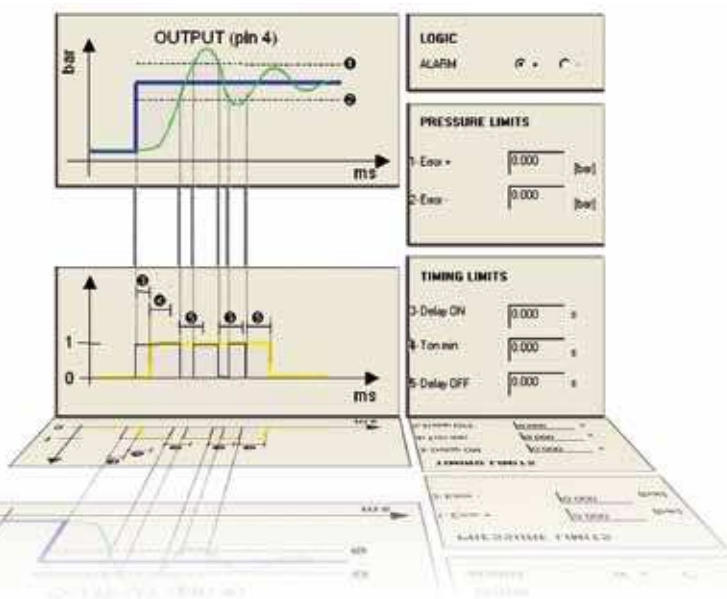
Calys is a software to set all relevant parameters of the Lucifer® EPP4 Comfort.

The cable 496449 (option) is needed to let the EPP4 communicate with any configured PC, this software supplied free of charge with each cable unit.



Calys offers the following features:

- Live monitoring (control signal, regulated pressure, supply voltage,...)
- Recording of the main parameters (control signal, regulated pressure, supply voltage,...) in an Excel file
- Free calibration for the inputs and outputs
- Adjustable alarm (positive-negative, pressure limits, delays)
- Configuration files easy to duplicate
- Complete and interactive help file
- Data in 4 different pressure units
- Menus in 4 languages (English, German, French and Italian)
- Cable 496449 with RS-232 and USB connection



Power Supply / Control Signal Cable

- 2 m cable with moulded M12-8 pins connector

**Order the PC software
(including cable) under
reference 496449**

**Order the power supply /
control signal cable under
reference 496796**

Lucifer® EPP4 Comfort 1/4" and 1/2"

References

Codes	Pipe	Pressure range (bar)		Control signal (see options)	Display
P4CG2001C001	G 1/4	0	10	0-10 V	-
P4CG2001C002	G 1/4	0	10	4-20 mA	-
P4CG2001C005	G 1/4	0	7	0-10 V	-
P4CG2001C006	G 1/4	0	7	4-20 mA	-
P4CG2002C001	G 1/4	0	10	0-10 V	included
P4CG2002C002	G 1/4	0	10	4-20 mA	included
P4CG2002C007	G 1/4	0	7	0-10 V	included
P4CG2002C008	G 1/4	0	7	4-20 mA	included
P4CN2001C001	1/4 NPT	0	10	0-10 V	-
P4CN2001C002	1/4 NPT	0	10	4-20 mA	-
P4CN2002C001	1/4 NPT	0	10	0-10 V	included
P4CN2002C002	1/4 NPT	0	10	4-20 mA	included
P4CG4001C001	G 1/2	0	10	0-10 V	-
P4CG4001C002	G 1/2	0	10	4-20 mA	-
P4CG4001C005	G 1/2	0	7	0-10 V	-
P4CG4001C006	G 1/2	0	7	4-20 mA	-
P4CG4002C001	G 1/2	0	10	0-10 V	included
P4CG4002C002	G 1/2	0	10	4-20 mA	included
P4CG4002C005	G 1/2	0	7	0-10 V	included
P4CG4002C006	G 1/2	0	7	4-20 mA	included
P4CN4001C001	1/2 NPT	0	10	0-10 V	-
P4CN4001C002	1/2 NPT	0	10	4-20 mA	-
P4CN4002C001	1/2 NPT	0	10	0-10 V	included
P4CN4002C002	1/2 NPT	0	10	4-20 mA	included

Other specific settings or specialties (external pressure supply, integrated exhaust of the pilot valves, etc...) are available, please contact us.

If you need more informations on the rest of the Lucifer® EPP4 range, please consult:

- 8683UK -> EPP4 Basic 1/4"
- 8684UK -> EPP4 Basic 1/2"
- 2202UK -> EPP4 Comfort 1/2"HP, 1" & 2"



Lucifer® EPP4 Comfort 1/2" HP, 1" and 2"

References

Codes	Pipe	Max inlet pressure (bar)	Pressure range (bar)		Control signal (see options)	Dimensional Drawing
P4CG4101D001	G1/2	15	0	12	0-10V	1
P4CG4201D005	G1/2	21	0	16	0-10V	2
P4CG4201D003	G1/2	21	0	20	0-10V	2
P4CG4201D004	G1/2	21	0	20	4-20mA	2
P4CG6101C009	G1	12	0	3.5	4-20mA	3
P4CG6101C011	G1	12	0	5	0-10V	3
P4CG6101C010	G1	12	0	6	4-20mA	3
P4CG6101C001	G1	12	0	10	0-10V	3
P4CG6101C002	G1	12	0	10	4-20mA	3
P4CG6201D003	G1	21	0	20	0-10V	3
P4CG9101C012	G2	12	0	4	4-20mA	4
P4CG9101C010	G2	12	0	6	4-20mA	4
P4CG9101C001	G2	12	0	10	0-10V	4
P4CG9101C002	G2	12	0	10	4-20mA	4

Other specific settings or specialties (external pressure supply, integrated exhaust of the pilot valves, etc...) are available, please contact us.



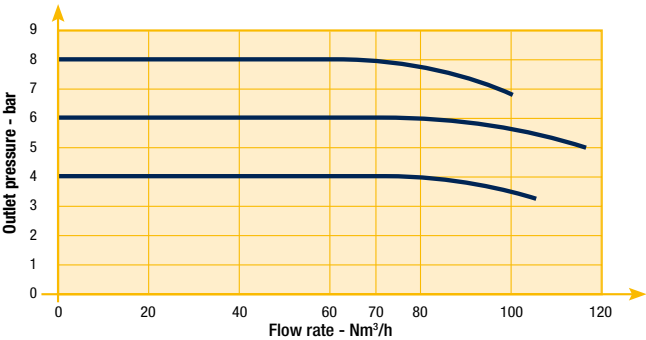
If you need more informations on the rest of the Lucifer® EPP4 range, please consult:

- 8683UK -> EPP4 Basic 1/4"
- 8684UK -> EPP4 Basic 1/2"
- 2201UK -> EPP4 Comfort 1/4" & 1/2"

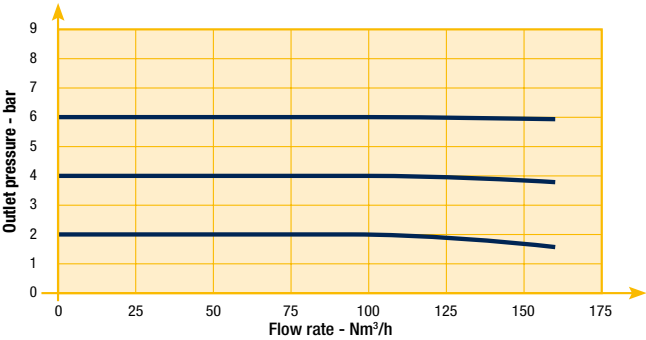
Lucifer® EPP4 Basic and Comfort 1/4" and 1/2"

Technical Characteristics

Flow Curve 1/4"



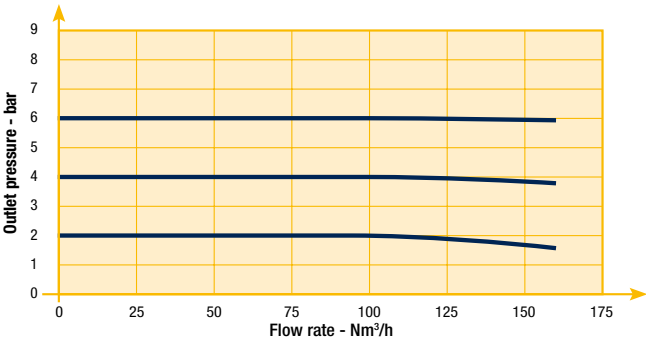
Flow Curve 1/2"



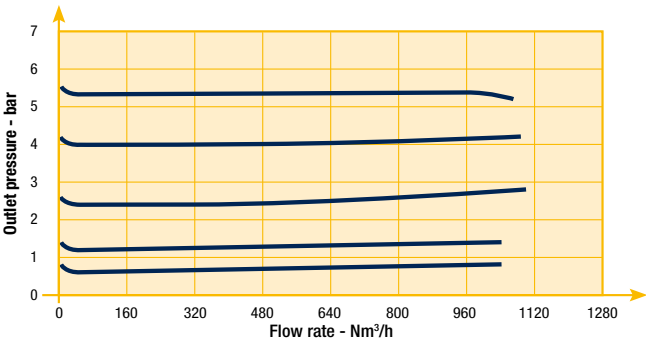
Lucifer® EPP4 Comfort 1/2" HP, 1" and 2"

Technical Characteristics

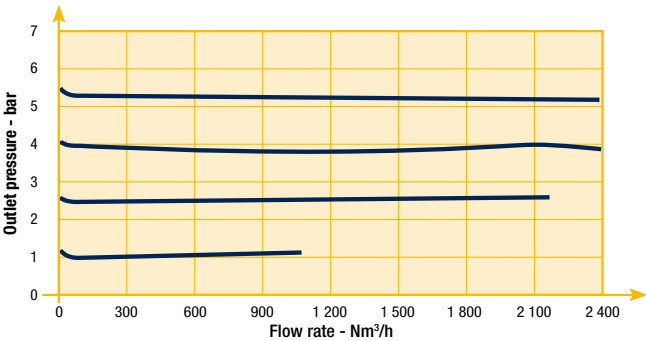
Flow Curve 1/2"



Flow Curve 1"



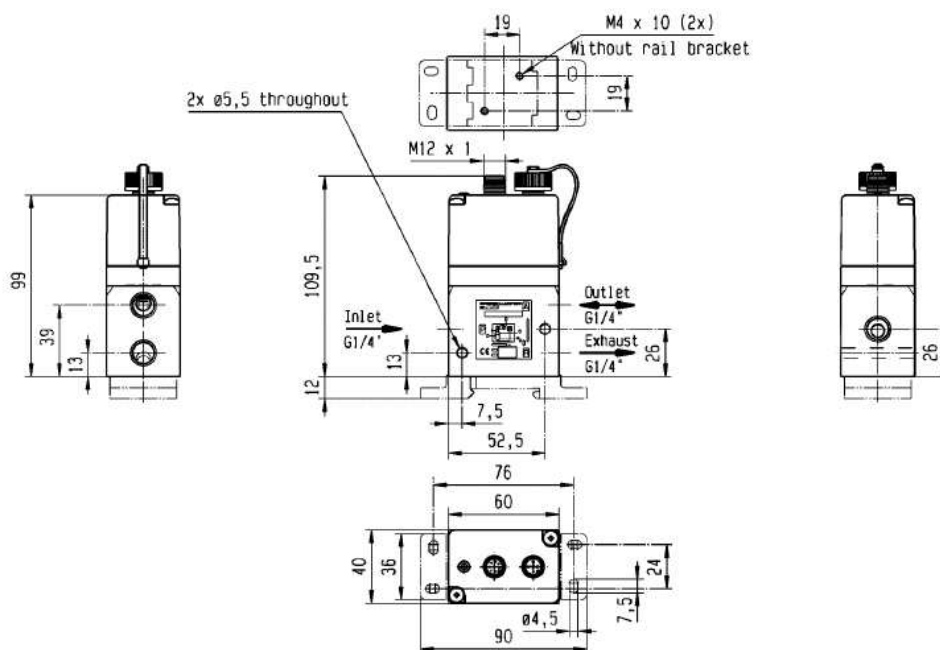
Flow Curve 2"



Lucifer® EPP4 Comfort Range 1/4"

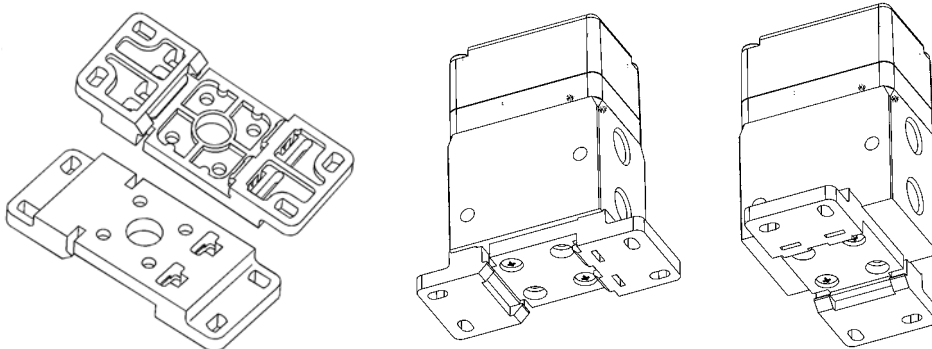


Dimensions



Accessories

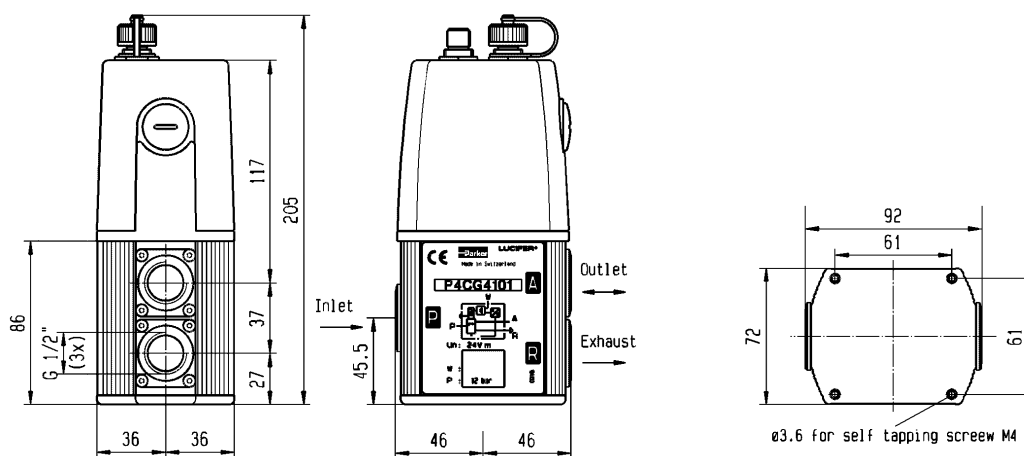
Mounting bracket
(supplied as a standard with each Lucifer® EPP4 1/4")



Lucifer® EPP4 Comfort Range 1/2"

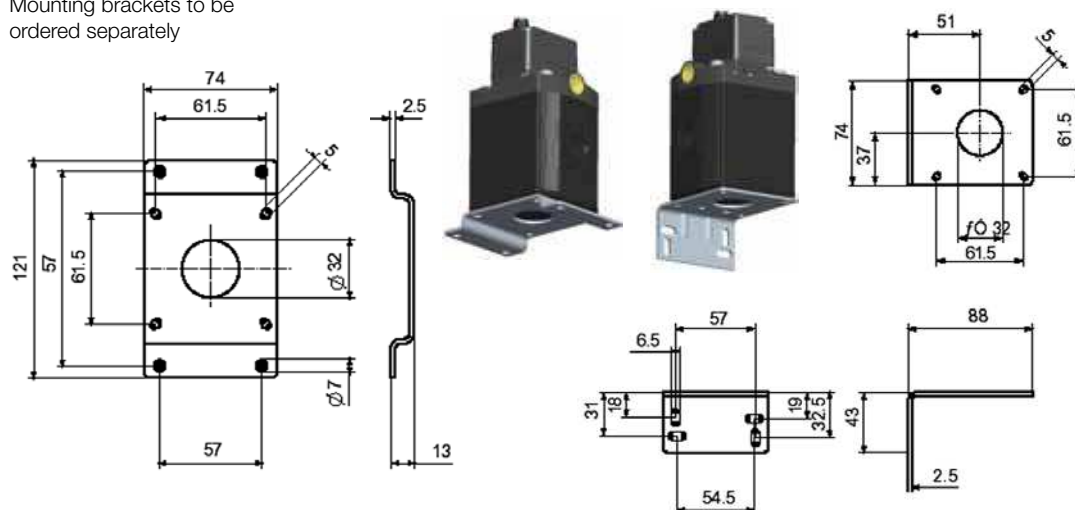


Dimensions



Accessories

Mounting brackets to be ordered separately



Order reference 491366

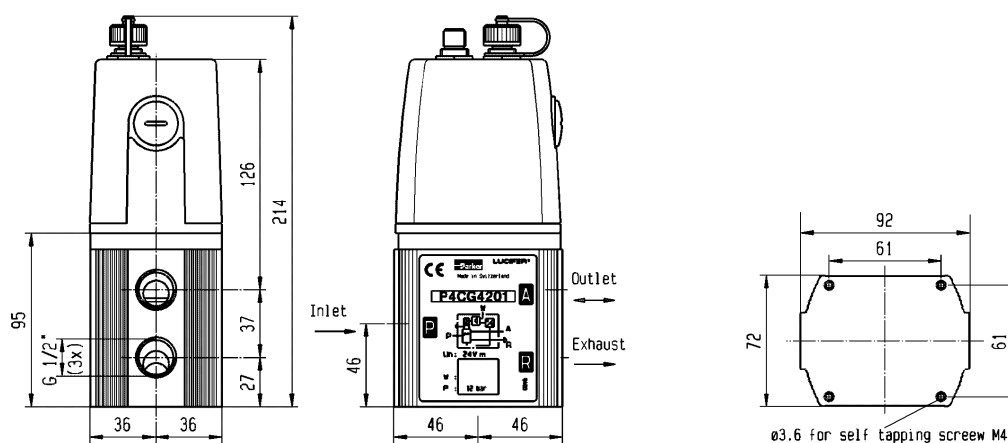
Order reference 491367



Lucifer® EPP4 Comfort Range 1/2" High Pressure 20 bar

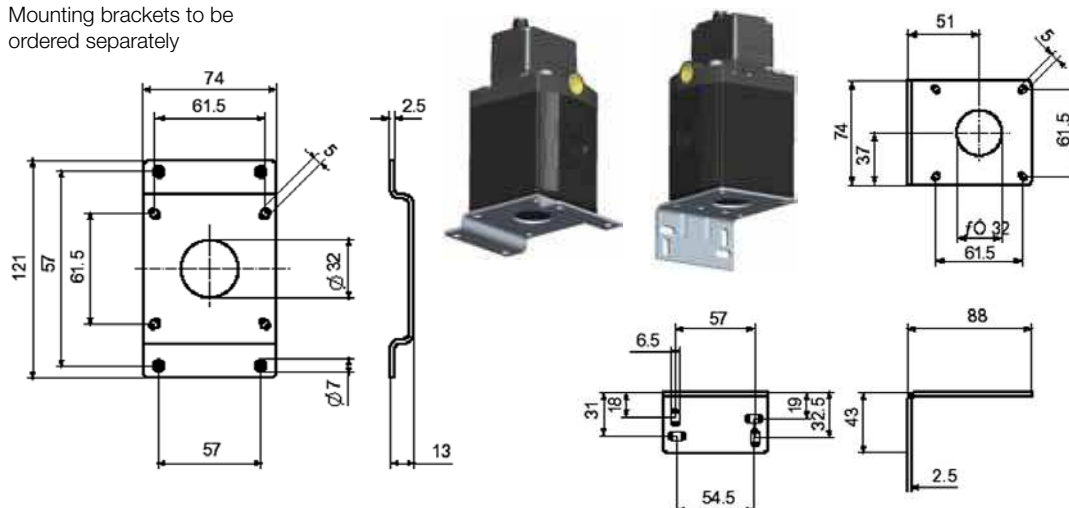


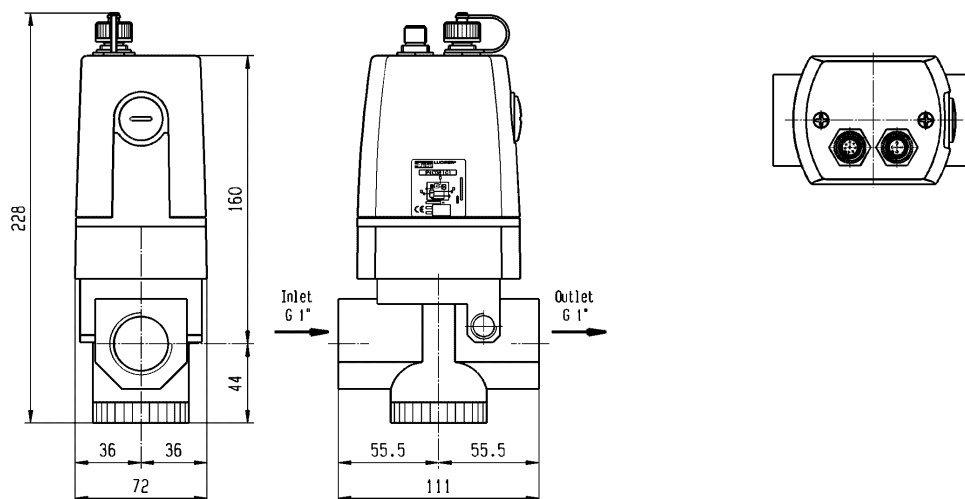
Dimensions

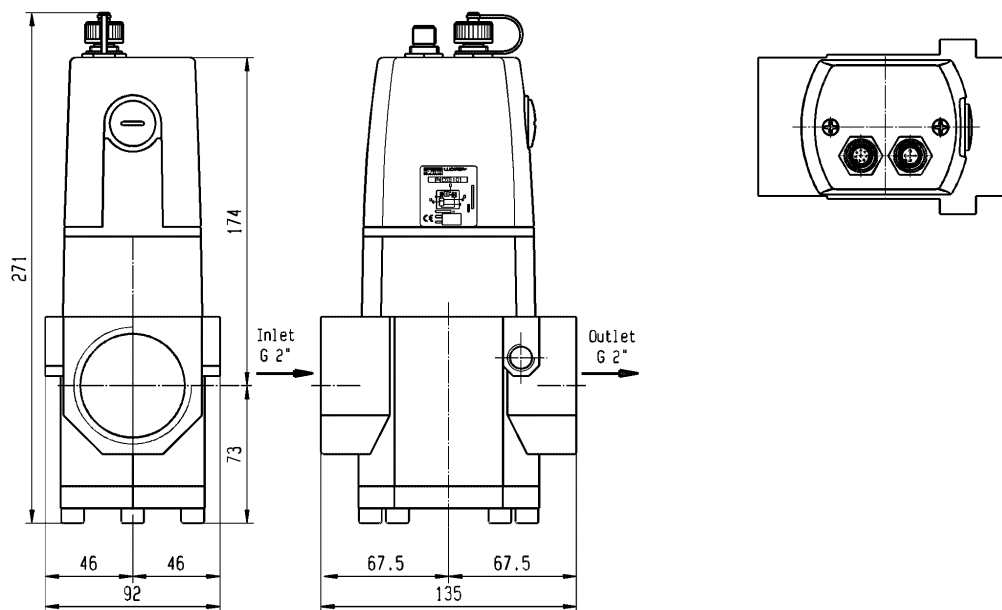


Accessories

Mounting brackets to be ordered separately

**Order reference 491366****Order reference 491367**

Lucifer® EPP4 Comfort Range 1"**Dimensions**

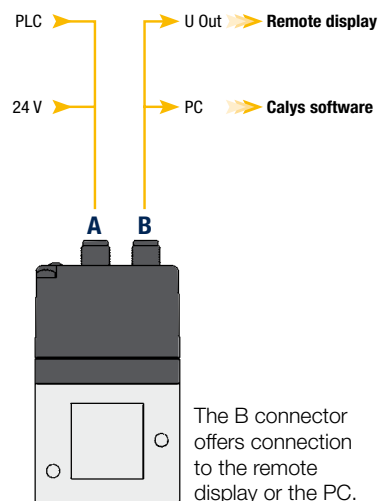
Lucifer® EPP4 Comfort Range 2"**Dimensions**

Lucifer® EPP4 Comfort Options

Additional Features

The EPP4 Comfort offers two main options - a remote display and a software to easily set the regulator's parameters.

These are the key feature options for a comfortable use.



- A remote display connected to the pressure regulator offers flexible monitoring.
- A panel mounting kit is available to install the remote display.
- Calys is an easy-to-use software package designed to allow the user to match his regulators performance directly to his specific application.
- A power supply and control signal cable.

Lucifer® EPP4 Comfort Options

Remote Display

This option includes the Remote Display and 1.5 meter connecting cable.

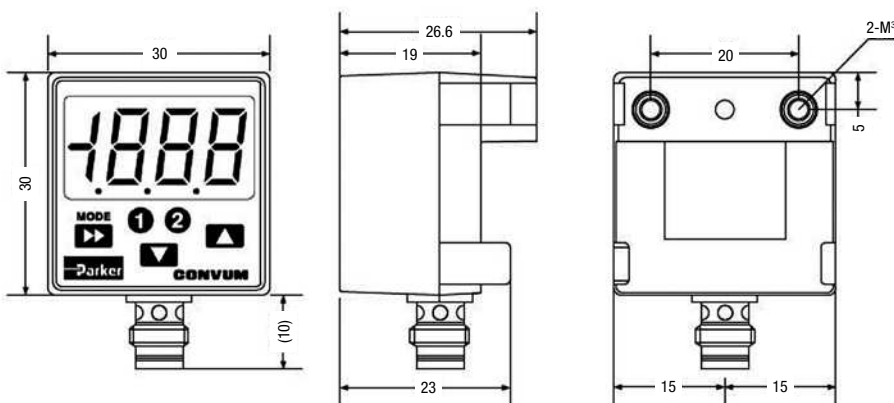
Compact and highly readable remote LED display:

- Bar and PSI scales
- Security lock
- 1.5 m cable
- Mounting brackets



**Order the Remote Display
under reference 496490**

Panel Mounting Kit



**Order the Panel Mounting Kit
under reference 496610**

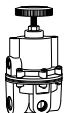
Highly accurate units, suitable for applications such as instrumentation where precision regulation is required.

- High repeatability
- High relief capacity on R220 model
- High flow capacity on R230 model



Operating information

Max operating pressure	10 bar
Max operating temperature	66°C
Repeatability:	R210 model 0.3 mbar
	R220 model 0.3 mbar
	R230 model 0.6 mbar
For technical information see CD	

	Port size	Reduced Pressure range	Flow l/min	Relief capacity l/min	Order code
	G1/4	0.13 - 2.7	396	57	R210G02A
	G1/4	0.13 - 8.1	396	57	R210G02C
	G1/4	0.13 - 8.1	396	282	R220G02C
	G1/4	0 - 0.13	2280	114	R230G02E
	G1/4	0 - 2	2280	114	R230G02B
	G1/4	0.13 - 4	2280	114	R230G02C
	G1/4	0.13 - 10	2280	114	R230G02D

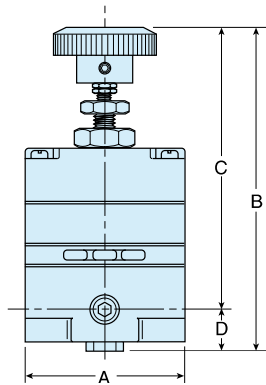
Mounting brackets

Series	Order code
R210 / R220	446-707-045
R230	446-707-025

 Indicates stocked product.

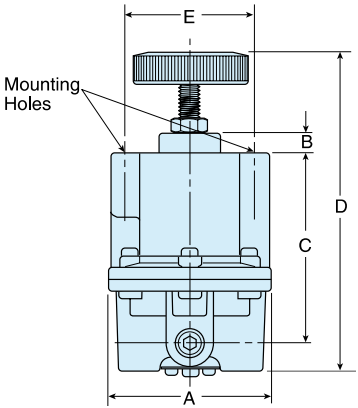
Dimensions (mm)

R210 / 220 High Precision Regulator



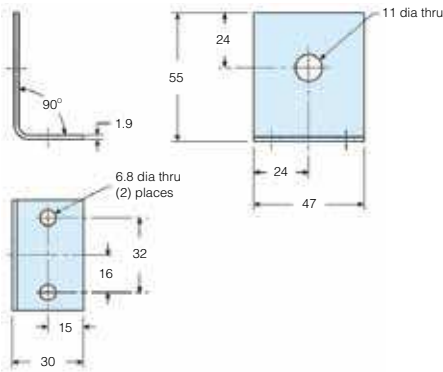
A	C	D	E
52mm	110mm	97mm	13.5mm

R230 High Flow Precision Regulator

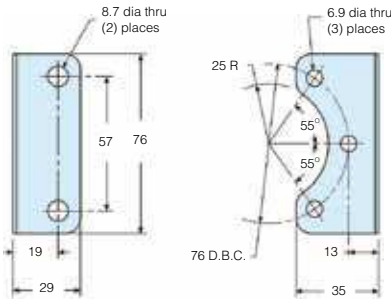


A	B	C	D	E
76mm	10mm	86mm	154mm	57mm

Mounting bracket - 446-707-045



Mounting bracket - 446-707-025



- Compact body ported units
- Port sizes G¹/₈ and G¹/₄
- Unique deflector plate ensuring maximum water and particulate removal
- Solid control piston with lip seal for extended life.
- Proportional oil delivery over a wide range of air flows.

**Operating information**

Working pressure:	Max 10 bar
Working temperature:	0 °C to +52 °C

Flow characteristics

Flow	Filter	11 l/s
	Regulator	9,3 l/s
	Filter Regulator	9,3 l/s
	Lubricator	10 l/s

For technical information see CD

Filters - 5 micron element, transparent bowl

Port size	Description	Order Code
G1/8	Manual drain	14F01BB1
G1/8	Auto drain	14F05BB1
G1/4	Manual drain	14F11BB1
G1/4	Auto drain	14F15BB1
	Mounting bracket	PS417BP

Coalescing Filters - 0.01 micron element

Port size	Description	Order Code
Poly bowl		
G1/8	Manual drain	10F01ED1
G1/8	Auto drain	10F05ED1
G1/4	Manual drain	10F11ED1
G1/4	Auto drain	10F15ED1
	Mounting bracket	PS417BP

Regulators - relieving type - non relieving options available

Port size	Description	Order Code
G1/8	2 bar	14R010FC1
G1/8	4 bar	14R011FC1
G1/8	8 bar	14R013FC1
G1/4	2 bar	14R110FC1
G1/4	4 bar	14R111FC1
G1/4	8 bar	14R113FC1
	Mounting bracket (Includes panel mounting nut)	PS417BP

Filter/Regulators

- transparent bowl - 2 and 4 bar and non relieving options available

Port size	Description	Order Code
G1/8	2 bar, manual drain	14E01B10FC1
G1/8	2 bar, auto drain	14E05B10FC1
G1/4	2 bar, manual drain	14E11B10FC1
G1/4	2 bar, auto drain	14E15B10FC1
G1/8	4 bar, manual drain	14E01B11FC1
G1/8	4 bar, auto drain	14E05B11FC1
G1/4	4 bar, manual drain	14E11B11FC1
G1/4	4 bar, auto drain	14E15B11FC1
G1/8	8 bar, manual drain	14E01B13FC1
G1/8	8 bar, auto drain	14E05B13FC1
G1/4	8 bar, manual drain	14E11B13FC1
G1/4	8 bar, auto drain	14E15B13FC1
	Mounting bracket (Includes panel mounting nut)	PS417BP

Lubricators - transparent bowl

Port size	Order Code
G1/8	04L00GB1
G1/4	04L10GB1
	Mounting bracket
	PS419

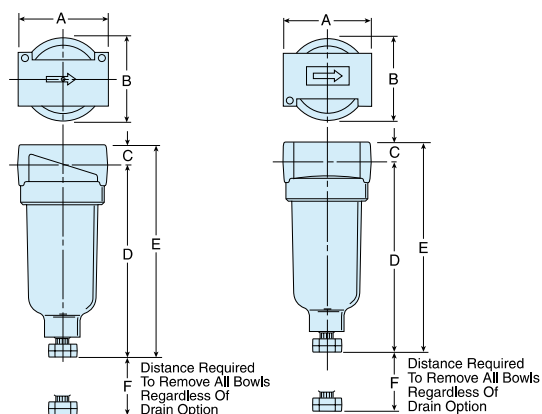
Pressure Gauges

	Order Code
0 - 2 bar	P3D-KAB1AYN
0 - 4 bar	P3D-KAB1ALN
0 - 8 bar	P3D-KAB1ANN



Dimensions (mm)

Filters

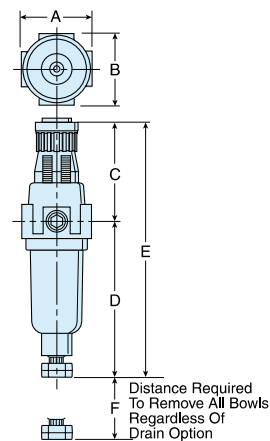


A	B	C	D	D'	E	E'	F
43	39	10	97	99	107	108	41

A	B	C	D	D'	E	E'	F
43	39,6	10	97	93	107	103	41

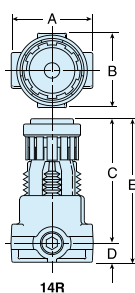
Coalescing Filters

Filter/Regulators



A	B	C	D	D'	E	E'	F
41	40	61	96	92	158	154	41

Regulators

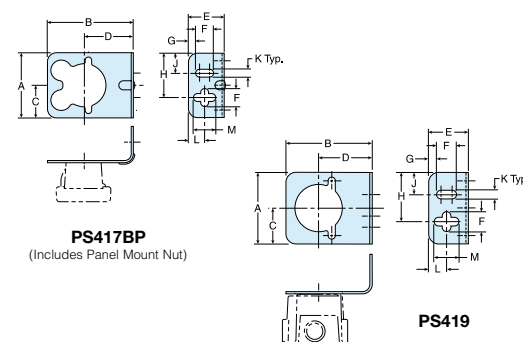


14R	A	B	C	D	E
	42	40	63,5	10	731

14R**L*	A	B	C	D	E
	42	40	57,9	10	68

14RM	A	B	C	D	E	F	G	H	J
	38	38	60	13	73	30	15	8	18

Mounting Bracket Kits



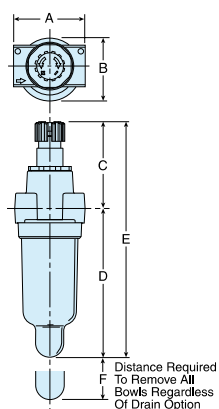
PS417BP - 10F, 14F, 14R, 14E

A	B	C	D	E	F	G	H	J	K	L	M
46	60	23	34	25	13	5	31	14	6	11	16

PS419 - 04L

A	B	C	D	E	F	G	H	J	K	L	M
46	55	23	34	25	13	5	31	14	6	11	16

Lubricators



A	B	C	D	D'	E	E'	F
44	40	55	92	96	147	151	41

Service kits

Description	Order Code
5 micron particulate element	PS403P
0.01 micron coalescing element	PS446P
Poly bowl with manual drain	PS404P
Poly bowl with pulse drain	PS408BP
Lubricator bowl	PS421P
Regulator	
Relieving type	PS422P
Non-relieving type	PS428P

The range of Stainless Steel FRLs are ideal for use in the food industry, the petrochemical or process industries or any application in a particularly harsh or aggressive environment.

- Suitable for Marine & Offshore applications
- Chemical / Petroleum and process industries
- Coalescing filters are designed for removing oil and water aerosols down to 0.01µ
- Suitable for food industry applications

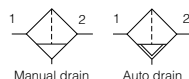


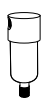
Operating information

Max operating pressure	20 bar
	12 bar when fitted with auto-drain
Max operating temperature	Regulator 65°C
	Filter + Regulator 80°C,
	50°C when fitted with auto-drain

For technical information see CD

Particulate Filter



	Port size	Flow l/min @ 7 bar	Filter element	Order code with manual drain	Order code with auto drain
	G1/4	660	20µ	PF504G02DHSS	
	G1/2	1800	40µ	PF10G04DJSS	PF10G04DJRSS

* For 5µ filter element substitute **H** or **J** with **G**

Coalescing Filter

	Port size	Flow l/min @ 7 bar	Filter element	Order code with manual drain	Order code with auto drain
	G1/4	240	0.3µ	PF501G02DHSS	
	G1/2	480	0.01µ	PF11G04DJSS	PF11G04DJRSS

Regulator



	Port size	Flow l/min @ 7 bar	Order code fitted with 0-8.5 bar spring
	G1/4	450	PR364G02CSS
	All metal version		PR354G02CSS
	1/2	2820	PR10G04CSS
	All metal version		PR11G04CSS

Filter/Regulator



	Port size	Flow l/min @ 7 bar	Order code fitted with 0-8.5 bar spring
	G1/4	450	PB548G02DHCSS
	All metal version		PB558G02DHCSS
	1/2	1800	PB11G04DJCSS
	All metal version		PB12G04DJCSS

Panel mounting nut for G1/4: **PR05X51SS**
G1/2: **PR10X51SS**

Lubricator



	Port size	Flow l/min @ 7 bar	Order code
	G1/2	3000	PL10G04DSS

 Indicates stocked product.

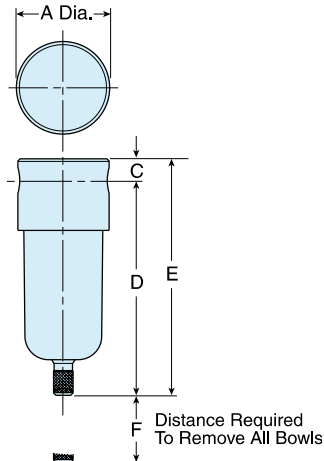
Connectors

	Port size	Order code
	G1/4	AC-2SS
	G1/2	AC-4SS

Stainless steel pressure gauge **M1/4G40S-10**
(0 to 10 bar)

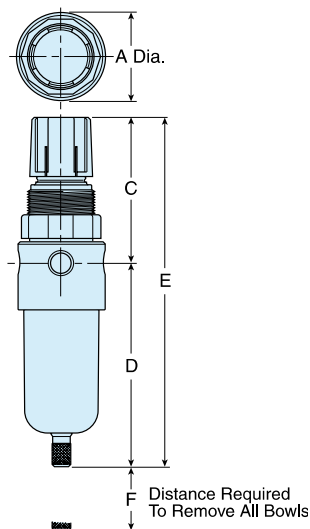
Dimensions (mm) - 1/4"

Filters
Coalescing Filters



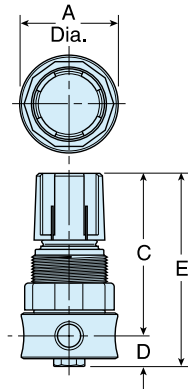
A	C	D	E	F
40mm	8mm	94mm	102mm	40mm

Filter/Regulators



A	C	D	E	F
40mm	67mm	92mm	159mm	40mm

Regulators



A	C	D	E
40mm	65mm	13mm	78mm

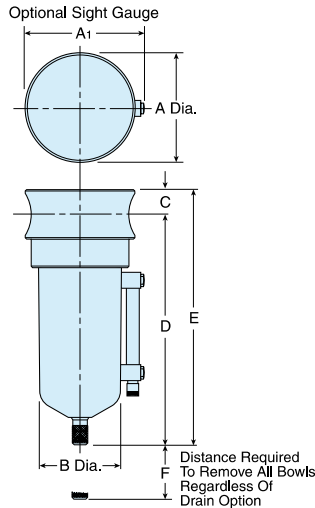
Service kits

Port size	Description	Order Code
Filter		
1/4	20 micron particulate element	EK504Y
1/4	5 micron particulate element	EK504VY
1/2	40 micron particulate element	EK55J
1/2	5 micron particulate element	EK55G
Coalescing Filter		
1/4	0.3 micron coalescing element	EKF501H
1/2	0.01 micron coalescing element	EKF71
Regulator		
1/4	Relieving type	RKR364YSS
1/4	Non-relieving type	RKR36KYSS
1/2	Relieving type	RKR10YSS
1/2	Non-relieving type	RKR10KYSS
Filter/Regulator		
1/4	20 micron particulate element	EK504Y
1/4	5 micron particulate element	EK504VY
1/2	40 micron particulate element	EKF10Y
1/2	5 micron particulate element	EKF10VY
Lubricator		
	Sight dome kit	RKL10SS

Dimensions (mm) - 1/2"

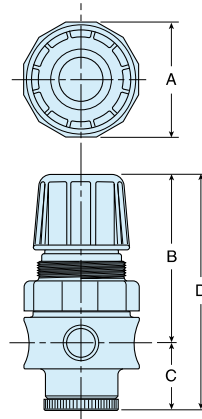
Filters

Coalescing Filters



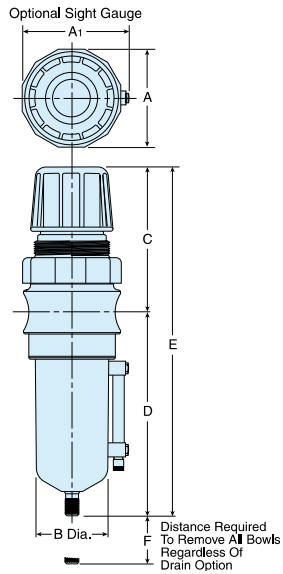
A	A ₁	B	C	D	E	F
60mm	64mm	44mm	14mm	127mm	141mm	54mm

Regulators



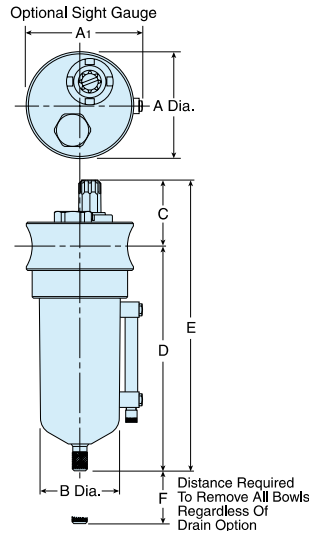
A	C	D	E
60mm	91mm	35mm	126mm

Filter/Regulators



A	A ₁	B	C	D	E	F
60mm	64mm	44mm	91mm	127mm	218mm	54mm

Lubricators



A	A ₁	B	C	D	E	F
60mm	64mm	44mm	46mm	127mm	173mm	89mm

Protect your most important assets: your employees and their equipment!

The AirGuard offers simple but efficient protection to pneumatic systems in the event of a broken compressed-air hose or pipe. The air supply is immediately shut off by the AirGuard, should the volume of air exceed a set value. This "value" is factory preset and is set to allow normal air consumption when using air tools.

Should the air consumption exceeds the set value, e.g. the air line is severed, then the internal piston instantly shuts off the main flow. An integral bleed hole allows some air to flow through. This enables the line pressure to automatically reset the AirGuard once the main line break is repaired.

Management Responsibility:

It is the duty of management to ensure a safe working environment for their employees and that the equipment complies with the **Machinery Directive EN983** or "PUWER" (the Provision and Use of Work Equipment Regulations)

EU Standard EN983-1996 (5.3.4.3.2) currently states:

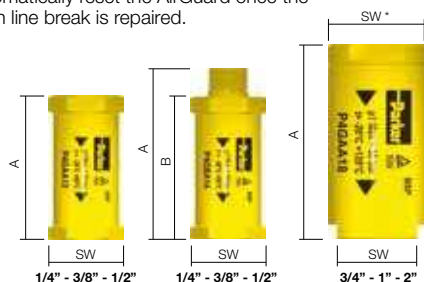
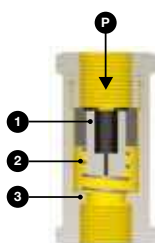
"Failure of flexible hose assemblies and plastic piping: If the failure of a flexible hose assembly constitutes a whiplash hazard or a fluid ejection hazard, it shall be restrained or shielded".

Complies with the 2009 ISO4414 (5.4.5.11.1)

"When failure of a hose assembly of plastic piping constitutes a whiplash hazard, it shall be restrained or shielded by suitable means and/or an air fuse for compressed air shall be mounted".

Function:

(P) is the inlet. Air passes the piston (1) and continues through the seat (3). The air flow, passing the piston, is slowed down by means of length wise grooves on the outer side of the piston. If the flow is too high, the air cannot pass the piston quickly enough, and the piston is forced against the spring (2) and towards the seat. The maximum flow is shown in the graph. If the value indicated is exceeded e.g. if the hose suddenly breaks - the air supply is automatically shut off. An integral bleed hole allows some air to flow through. This enables the line pressure to automatically reset the AirGuard once the main line break is repaired.



Special Applications

Stainless Steel AirGuard available in 1/2" size

Some branches of industry with a high hazard potential, such as chemical and pharmaceutical as well as clean room and offshore technologies place extremely high demands on both the safety of their employees and the protection of their facilities. Compressed air is typically used as an energy transfer medium in these industries and is no means without its dangers: compressed air hoses can rupture or burst, as can fixed pipes. This may expose personnel working in such areas to extreme hazards as well as potential damage to expensive facilities and costly production downtime.



Technical Data and Ordering Information

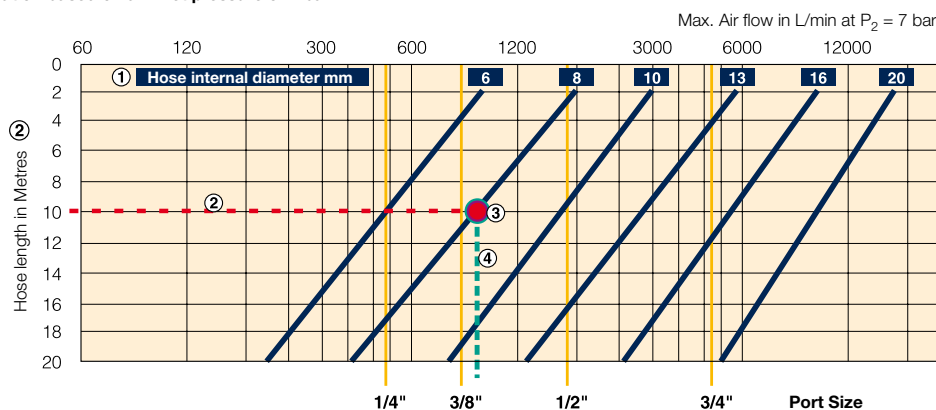
Thread connection BSP	dimensions (mm)			Weight (g)	Maximum inlet pressure	Temperature range	Material	P1 inlet thread	P2 outlet thread	Order Code
	A	B	SW							
1/4"	48	-	22	30	18 bar (255 PSIG)	-20°C to 80°C (-4°F to 176°F)	Housing: aluminium Piston: polyoxy- methylene	female	female	P4GAA12
1/4"	58	49	22	36				male	female	P4GBA12
3/8"	59	-	27	58				female	female	P4GAA13
3/8"	71	59	27	62				male	female	P4GBA13
1/2"	65	-	30	78			female	female	P4GAA14	
1/2"	80	65	30	85			male	female	P4GBA14	
1/2"	62	-	28	132		-20°C to 120°C (-4°F to 248°F)	Housing: stainless steel Piston: polyoxy methylene	female	female	P4GCA14
3/4"	76	-	30 / 36*	107				Housing: aluminium Piston: aluminium	female	female
1"	100	-	41 / 50*	300	female		female		P4GAA18	
2"	130	-	70 / 80*	775	female		female		P4GAA1C	

Note: NPT version available on request - 1/4" high flow version available on request.



How to select the optimal size of an AirGuard

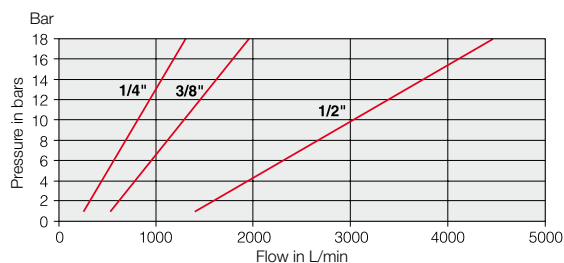
Information based on an inlet pressure of 7 bar



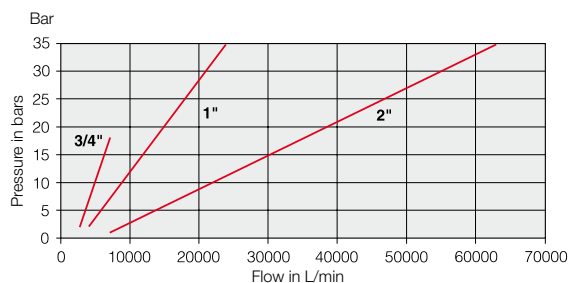
- Determine the internal diameter of the hose, tube or pipe being used ① (see specification Hose-internal Diameter in blue box, blue diagonal line).
- Determine the length of the hose, tube or pipe ② (Hose length in metres).
- Define the intersection of point a and b, and mark a vertical line downwards. ③ - ④ (In the example the red/green dot and the green dashed line).
- The next vertical yellow line, left of the intersection line ④ (example: green dashed) tells the correct AirGuard size (in inches).
- Important: Every flow value to the right of the respective vertical line (yellow) would activate the AirGuard in case of a bursting hose, pipe or tube. All AirGuard sizes right of the intersection line (green) are too big and will not close up.
- Example:** Which air fuse should be used for a hose, pipe or tube bearing 8 mm inner diameter and 10 meters of length - follow the 10 meter line (red ②) to the intersection point (red/green dot ③). Now the next left yellow line marks the correct size.
- Result:** The correct size in our example is the AirGuard 3/8"

Closing Flow Graphs

1/4", 3/8" and 1/2" flow rates



3/4", 1" and 2" flow rates



Dimensioning of compressed air hoses and equipment

Connection Size	Hose length 0 to 10 meters			Hose length 10 to 20 meters		
	Inner diameter Minimum mm	Minimum pressure bar	Flow at 6 bar l/min	Inner diameter minimum	Minimum pressure bar	Flow at 6 bar l/min
1/4"	7	4	480	8	4	480
3/8"	10	4	1100	12	4	1100
1/2"	12	4	2000	14	4	2000
3/4"	18	4	3800	20	4	3800
1"	24	4	6500	26	4	6500
2"	45	4	16000	50	4	16000

If the pressure is lower than stated in the table, a hose with a larger internal diameter must be used.

To select the correct size AirGuard, the pneumatic tool or equipment must have a maximum flow requirement to the left of the red line.

e.g.: 15 bar @20000 L/m = 2" size AirGuard
8 bar @1000 L/m = 3/8" size AirGuard

A range of speed controls, flow controls and back pressure sensors designed to be mounted directly onto the cylinder in the optimum position for maximum performance.

- "Push-in" or threaded connection
- Multifunction options
- Fit directly to cylinder ports
- Swivelling pilot banjo
- Pneumatic, Electric or Electronic back pressure sensor



Operating information

Working pressure;

PWR-L, PWR-H, PWR-A, PWR-B	1-10 bar
PWB-A, PWS-M, PWS-E, PWS-P	0-10 bar
PWA-L	0,2-10 bar

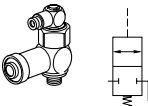
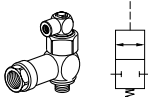
Working temperature	: -15°C to +60°C
PWR-L	-15°C to +70°C

Pilot pressure at 6 bar supply;

PWB-A and PWR-HB	(1/8", 1/4" versions)	: 4 bar
	(1/2" and 3/8" versions)	: 2,9 bar
PWS-P111		: 4,4 bar
PWS-M1012		: 1,5 bar
PWS-E101 and E111		: 0,7 bar

For technical information see CD

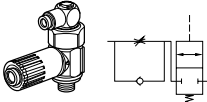
2/2 Blockers

Symbol	Connection for pilot port	Thread for cylinder connection	Connection for tube Ø, mm	Tightening torque Nm	Qmax input at 6 bar, l/min*	Order code
With push-in connection						
	Push-in *, Ø4 mm	G1/8	6	8	500	PWB-A1468
		G1/4	6	12	600	PWB-A1469
			8	12	650	PWB-A1489
		G3/8	8	30	1600	PWB-A1483
			10	30	1750	PWB-A1493
		G1/2	12	35	2050	PWB-A1412
With threaded connection						
	Push-in *, Ø4 mm	G1/8	G1/4	8	500	PWB-A1898
		G1/4	G1/4	12	650	PWB-A1899
		G3/8	G3/8	30	1750	PWB-A1833
		G1/2	G1/2	35	2050	PWB-A1822

* M5 without banjo

 Indicates stocked product.

Multifunction flow control + blockers

Symbol	Connection for pilot port	Thread for cylinder connection	Connection for tube Ø, mm	Tightening torque Nm	Qmax input at 6 bar, l/min*	Order code
With push-in connection						
	Push-in, Ø4 mm	G1/8	4	8	330	PWR-HB1448
			6	8	500	PWR-HB1468
		G1/4	6	12	500	PWR-HB1469
			8	12	600	PWR-HB1489
		G3/8	8	30	1200	PWR-HB1483
			10	30	1300	PWR-HB1493
		G1/2	10	35	1400	PWR-HB1492

* Screw closed

Compact flow regulator with push-in connection

For direct port cylinder mounting

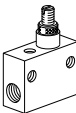
Symbol	Thread for cylinder connection	Push-in connection Ø, mm	Order code
	M5	4	PTF8PB4M5
	G1/8	4	PTF4PB4-1/8
		6	PTF4PB6-1/8
	G1/4	6	PTF4PB6-1/4
	G3/8	8	PTF4PB8-3/8
		10	PTF4PB10-3/8
	G1/2	12	PTF4PB12-1/2

Flow regulator with adjustable exhaust restriction

For direct port cylinder mounting

Symbol	Thread for cylinder connection	Push-in connection Ø, mm	Order code
	M5	4	PTFL8PB4M5
	G1/8	4	PTFL4PB4-1/8
		6	PTFL4PB6-1/8
		8	PTFL4PB8-1/8
	G1/4	6	PTFL4PB6-1/4
		8	PTFL4PB8-1/4
		10	PTFL4PB10-1/4
	G3/8	8	PTFL4PB8-3/8
		10	PTFL4PB10-3/8
	G1/2	12	PTFL4PB12-1/2

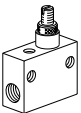
Flow control valves with by-pass

Symbol	Thread	Number of turns	Qmax input at 6 bar, l/min	Order code
	G1/8	13	240	VQB12-Q-O-5
	G1/4	13	1320	VQB22-Q-O-5
	G1/2	13	3600	VQB42-Q-O-5



Indicates stocked product.

Flow control valves with by-directional control

	Symbol	Thread	Number of turns	Q _{max} input at 6 bar, l/min	Order code
		G1/8	13	72	VQB12-OX-5*
		G1/8	13	240	VQB12-O-5
		G1/4	13	1320	VQB22-O-5
		G1/2	13	3600	VQB42-O-5

* Extra fine adjustment

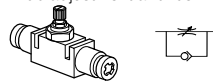
Knob and nut for panel mounting

	To suit	Order code
	VQB12	9128177212
	VQB22	9128177222
	VQB42	9128177242

Inline speed controls, PWR-L series

For inline mounting

With push-in connection,
knob adjustment and locknut



4	PWR-L1444
6	PWR-L1466
8	PWR-L1488
10	PWR-L1499
12	PWR-L1411

Plug-in sensors

For use with banjo sockets

	Sensing function	Output function	Output connection	Output characteristics	Order code
	Exhaust back pressure decay	Pneumatic	Push-in Ø 4 mm	NO valve flow rate at 6 bar 1,5 l/s	PWS-P111
		Electrical ~ I _e = 3 A	3 wires 0,5 mm ² length 2 m	CO contact 12 to 230 V ~ / 10 VA* 12 to 48 VDC/5 W*	PWS-M1012
		Solid state	3 wires 0,1 mm ² length 2m	PNP type 10/30 VDC** 75 mA	PWS-E101
				NO	PWS-E111

* Suitable for low currents : 250 V ~ / 4 mA ; 24 VDC / 10 mA ** Including ripple

Banjo sockets for plug-in sensors

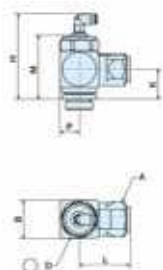
With sensor locking clip, for direct port cylinder mounting

	Thread size for cylinder port	Female thread	Tool required	Order code
	M5	M5	8 mm flat spanner	PWS-B155
	G1/8	G1/8	5 mm Allen key	PWS-B188
	G1/4	G1/4	8 mm Allen key	PWS-B199
	G3/8	G3/8	10 mm Allen key	PWS-B133
	G1/2	G1/2	12 mm Allen key	PWS-B122

 Indicates stocked product.

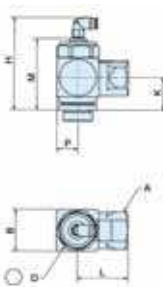
Dimensions (mm)

Blocker with push-in connection



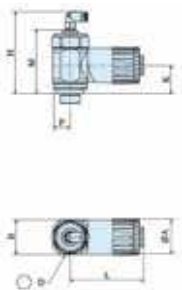
Order code	A	B	D	H	K	L	P	M
PWB-A1468	Ø 22	21	21	59,0	16,5	39	11	43
PWB-A1469	Ø 22	21	21	59,0	16,5	39	11	43
PWB-A1489	Ø 22	21	21	59,0	16,5	39	11	43
PWB-A1483	□ 27	30	27	66,5	22,5	39	15	52
PWB-A1493	□ 27	30	27	66,5	22,5	39	15	52
PWB-A1412	□ 27	30	27	66,5	22,5	39	15	52

Blocker with threaded connection



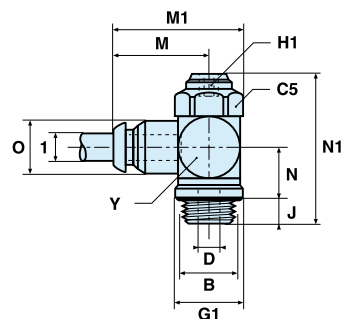
Order code	A	B	D	H	K	L	C	P	M
PWB-A1898	Ø 22	21	21	59,0	16,5	43,5	Ø24	11	43
PWB-A1899	Ø 22	21	21	59,0	16,5	43,5	Ø24	11	43
PWB-A1833	□ 27	30	27	66,5	22,5	36,0	□27	15	52
PWB-A1822	□ 27	30	27	66,5	22,5	36,0	□27	15	52

Blocker/Flow regulator



Order code	ØA	B	D	H	K	L	P
PWR-HB1448	22,5	21	21	59	16,5	47,0	12,5
PWR-HB1468	22,5	21	21	59	16,5	47,0	12,5
PWR-HB1469	22,5	21	21	59	16,5	47,0	12,5
PWR-HB1489	22,5	21	21	59	16,5	47,0	12,5
PWR-HB1483	29,0	30	27	64,5	22,5	60,0	15,0
PWR-HB1493	29,0	30	27	64,5	22,5	60,0	15,0
PWR-HB1492	29,0	30	27	64,5	22,5	60,0	15,0

PTF4/8PB - Flow regulator with push-in connection

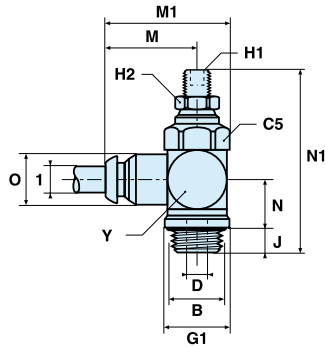


Exhaust flow control

Order code	C5	D	G1	H1	J	M	M1	N	N1	O	Y
PTF8PB4M5**	8	1,65	10,0	1,5	4	19,5	24,5	6,3	22,0	10	10
PTF4PB4-1/8	14	3,00	14,4	2,0	6	22,0	30,1	10,7	34,5	10	14
PTF4PB6-1/8	14	3,20	14,4	2,0	6	23,5	31,6	10,7	34,5	12	14
PTF4PB6-1/4	17	5,20	18,4	4,0	7	25,0	34,9	13,8	41,0	12	17
PTF4PB8-1/8	14	3,20	14,4	2,0	6	25,0	33,1	10,7	34,5	14	14
PTF4PB10-3/8	22	6,00	21,6	4,0	7	34,0	46,7	17,3	51,0	17	22
PTF4PB12-1/2	27	8,50	26,5	4,0	9	36,5	52,1	20,1	61,0	20	27

Dimensions (mm)

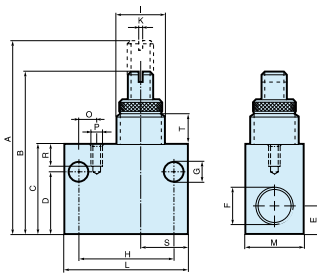
PTFL4/8PB - Flow regulator with push-in connection



Exhaust flow control

Order code	C5	D	G1	H1	H2	J	M	M1	N	N1	O	Y
PTFL8PB4M5**	8	1,65	10,0	1,5	8	4	19,5	24,5	6,3	28,5	10	10
PTFL4PB4-1/8	14	3,00	14,4	2,0	7	6	22,0	30,1	10,7	43,7	10	14
PTFL4PB6-1/8	14	3,20	14,4	2,0	7	6	23,5	31,6	10,7	43,7	12	14
PTFL4PB6-1/4	17	5,20	18,4	4,0	11	7	25,0	34,9	13,8	51,8	12	17
PTFL4PB8-1/8	14	3,20	14,4	2,0	7	6	25,0	33,1	10,7	43,7	14	14
PTFL4PB8-1/4	17	5,20	18,4	4,0	11	7	28,5	38,3	13,8	51,8	14	17
PTFL4PB8-3/8	22	6,00	21,6	4,0	11	7	29,5	42,2	17,3	63,7	14	22
PTFL4PB10-3/8	22	6,00	21,6	4,0	11	7	34,0	46,7	17,3	63,7	17	22
PTFL4PB12-1/2	27	8,50	26,5	4,0	14	9	36,5	52,1	20,1	76,1	20	27

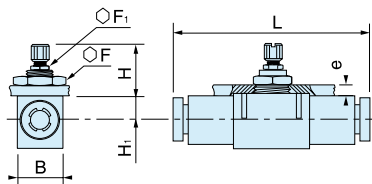
Flow Control Valves



Order code	A	B	C	D	E	F	G	H	I
VQB12-(Q)-OX-549	42	22	15	6,5	G1/8	5,8	24	M12x1	
VQB12-(Q)-O-5	49	42	22	15	6,5	G1/8	5,8	24	M12x1
VQB22-(Q)-O-5	64	53	30	21	8,5	G1/4	7,0	32	M16x1
VQB42-(Q)-O-5	99	85	50	36	16,5	G1/2	7,0	50	M24x1,5

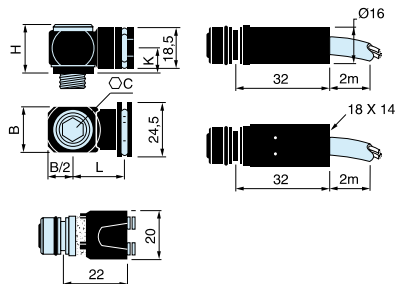
Order code	K	L	M	O	P	R	S	T
VQB12-(Q)-OX-51,2	32	15	-	-	-	13,5	8,8	
VQB12-(Q)-O-5	1,2	32	15	-	-	13,5	8,8	
VQB22-(Q)-O-5	1,2	42	20	6,0	M4	7	16,0	10,0
VQB42-(Q)-O-5	1,8	62	30	19,5	M4	7	20,5	15,2

Speed Controls, PWR-L Series



Order code	B	F	F1	e	H+	H-	H1	L	Q
PWR-L1444	12,0	14	*	6	25,5	21,5	6,5	39,0	10,5
PWR-L1466	17,0	19	*	7	32,5	27,5	7,5	54,0	17,0
PWR-L1488	18,5	24	11	7	34,5	28,5	9,0	60,5	19,0
PWR-L1499	24,0	30	14	7	38,5	29,5	11,5	76,0	25,0
PWR-L1411	28,0	32	14	8	42,0	32,0	12,5	86,0	28,0

Back Pressure Sensors - Modular



Order code	C	B	H	K	L
PWS-B155	8	11	16,5	10	17
PWS-B188	5	16	20,0	10	20
PWS-B199	8	21	20,0	10	22
PWS-B133	10	28	22,0	12	25
PWS-B122	12	33	26,0	14	26

Quick Exhaust Valves

- Increases piston speeds, super sensitive diaphragm.
- May be used as differential shuttle valve.

Shuttle Valves

- Allows two separate signals to be applied to the air pilot.
- 0,6 bar differential, Viton seals as standard.

Non Return Valves

- Aluminium or polymer bodies
- Compact

**Operating information****Shuttle valve •••005**

Working pressure	1,3 - 17 bar
Working temperature; Standard	-10 °C to +180 °C

Quick exhaust valve P4Q

Working pressure:	0,2 - 10 bar
Working temperature; Standard:	-10 °C to +80 °C

VB

Working pressure	Max 10 bar
Working temperature	-20 °C to +70 °C

PWA-L

Working pressure	0,2 - 10 bar
Working temperature;	-15 °C to +60 °C

For technical information see CD

Shuttle Valves

Symbol	Port size	Order code
	M5	M33005
	G1/8	B43005B
	G1/4	B53005A

Non Return Valves**Aluminium VB Series**

Symbol	Port size	Order code
	G1/8	VB12-Q-NQ-5
	G1/4	VB22-Q-NQ-5
	G1/2	VB42-Q-NQ-5

Quick Exhaust Valves P4Q Series

Symbol	Port size	Order code
	Standard Version	
	G1/4	P4Q-BA12
	G3/8	P4Q-BA13
	G1/2	P4Q-CA14
	G3/4	P4Q-CA16
	High Temperature Version (Fluorocarbon diaphragm)	
	G3/8	P4Q-BV13
	G1/2	P4Q-CV14
	G3/4	P4Q-CV16

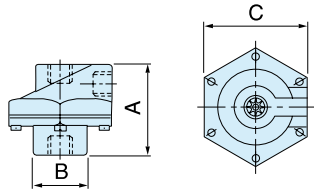
Line mounted non-return valves

Symbol	Push-in connection Ø, mm	Flow rate 6 bar, l/s	Order code
	4	3,33	PWA-L1444
	6	11,00	PWA-L1466
	8	26,67	PWA-L1488

Indicates stocked product.

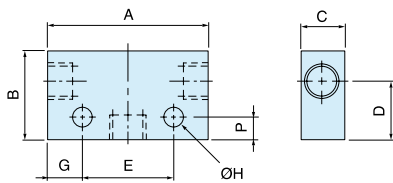
Dimensions (mm)

Quick Exhaust Valves



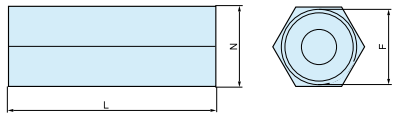
Order code	Port Size	A	B	C
P4Q-B*12	G1/4	52	25	62
P4Q-B*13	G3/8	52	25	62
P4Q-B*14	G1/2	73	38	86
P4Q-B*16	G3/4	73	38	86

Shuttle Valves



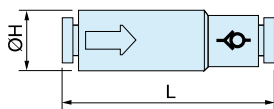
Order code	Port Size	A	B	C	D	E	F	G	H
M33005	M5	27,5	24	15	16,0	15	6	6,3	3,2
B43005B	G1/8	44,0	24	15	16,0	25	6	9,5	4,5
B53005A	G1/4	52,0	30	22	20,5	35	10	8,5	5,5

Non Return Valves - VB - Female



Order code	F	L	N
VB12-Q-NQ-5	G1/8	31	14
VQB22-Q-NQ-5	G1/4	40	17
VB42-Q-NQ-5	G1/2	59	27

Non Return Valves - Push-in



Order code	ØH	L
PWA-L1444	11,0	43,0
PWA-L1466	13,0	49,5
PWA-L1488	13,5	55,0

- Use with plastic or metal tubing
- Positive hold by a flexible grab ring
- Ready to use fitting
- Plastic push button
- Taper thread fittings for general use
- Parallel thread fittings for use with plastic bodied valves
- Other versions available, refer to CD



Ordering information

Prestolok fittings are sold in packs. The package quantities are indicated adjacent to the part numbers. When ordering, order by the quantity required. For example : to obtain 20 Prestolok 2 Equal Union 4mm Tees, purchase order should state:-

Qty 20

EPB4

Note

Orders received for Prestolok fittings in quantities other than pack quantity multiples will be rounded up to the nearest multiple

Operating information

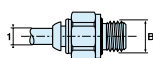
Prestolok Micro
Working pressure 0,01 to 16 bar
Working temperature -25 °C to +80 °C

Prestolok 2
Working pressure 0,01 to 25 bar
Working temperature -25 °C to +70 °C

Prestolok
Working pressure 0,01 to 25 bar
Working temperature -25 °C to +100 °C

For technical information see CD

Male straight connectors - Parallel thread



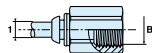
Tube Ø1	Thread B	Order code	Box Qty
4	M5x0,8	F8PMB4M5	30
6	M5x0,8	F8PMB6M5	20
4	1/8	F4PMB4-1/8	20
4	1/4	F4PMB4-1/4	20
6	1/8	F4PMB6-1/8	30
6	1/4	F4PMB6-1/4	30
8	1/8	F4PB8-1/8	40
8	1/4	F4PB8-1/4	30
8	3/8	F4PB8-3/8	20
10	1/4	F4PB10-1/4	20
10	3/8	F4PB10-3/8	20
10	1/2	F4PB10-1/2	10
12	1/4	F4PB12-1/4	10
12	3/8	F4PB12-3/8	10
12	1/2	F4PB12-1/2	10
14	3/8	F4PB14-3/8	10
14	1/2	F4PB14-1/2	10

Male straight connectors



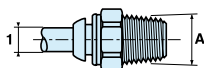
Tube Ø1	Thread B	Order code	Box Qty
4	M5x0,8	F28PMB4M5	30
6	M5x0,8	F28PMB6M5	20

Female connectors



Tube Ø1	Thread B	Order code	Box Qty
4	M5x0,8	G8PMB4M5	10
4	1/8	G4PMB4-1/8	20
4	1/4	G4PMB4-1/4	10
6	1/8	G4PMB6-1/8	20
6	1/4	G4PMB6-1/4	10
8	1/8	G4PB8-1/8	10
8	1/4	G4PB8-1/4	10

Male Connector - BSPT



Tube Ø1	Thread A	Order code	Box Qty
4	1/8	F3PMB4-1/8	40
4	1/4	F3PMB4-1/4	30
6	1/8	F3PMB6-1/8	40
6	1/4	F3PMB6-1/4	40
8	1/8	F3PB8-1/8	40
8	1/4	F3PB8-1/4	40
8	3/8	F3PB8-3/8	30
10	1/4	F3PB10-1/4	20
10	3/8	F3PB10-3/8	20
10	1/2	F3PB10-1/2	10
12	1/4	F3PB12-1/4	10
12	3/8	F3PB12-3/8	10
12	1/2	F3PB12-1/2	10
14	3/8	F3PB14-3/8	10
14	1/2	F3PB14-1/2	10

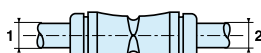


Equal union



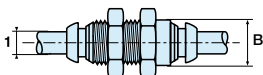
Tube Ø1	Plastic Order code	Box Qty	Metal Order code	Box Qty
4	HPMK4	20	HPB4	30
6	HPMK6	30	HPB6	20
8	HPK8	30	HPB8	20
10	HPK10	20	HPB10	10
12	HPK12	10	HPB12	10
14	HPK14	10	HPB14	5

Unequal union



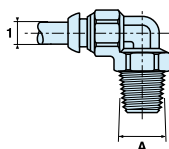
Tube Ø1	Tube Ø2	Plastic Order code	Box Qty
6	4	HPMK6-4	20
8	4	HPK8-4	20
8	6	HPK8-6	20
10	6	HPK10-6	10
10	8	HPK10-8	10
12	10	HPK12-10	10

Bulkhead equal union



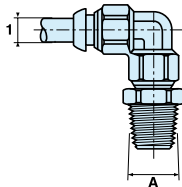
Tube Ø1	Thread B	Metal (Micro) Order code	Box Qty	Metal Order code	Box Qty
4	M11x0.75	WPMB4	10	WPB4	10
6	M13x1	WPMB6	10	WPB6	10
8	M15x1.25			WPB8	10
10	M18x1			WPB10	5
12	M23x1.5			WPB12	5
14	M24x1.5			WPB14	3

Compact elbow - BSPT



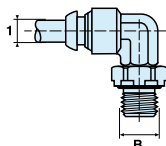
Tube Ø1	Thread A	Metal Order code	Box Qty
4	1/8	C3PB4-1/8	20
6	1/8	C3PB6-1/8	10
6	1/4	C3PB6-1/4	10
8	1/8	C3PB8-1/8	10
8	1/4	C3PB8-1/4	10
10	1/4	C3PB10-1/4	10
10	3/8	C3PB10-3/8	10
12	3/8	C3PB12-3/8	5
12	1/2	C3PB12-1/2	5
14	3/8	C3PB14-3/8	5
14	1/2	C3PB14-1/2	5

Adjustable male elbow - BSPT



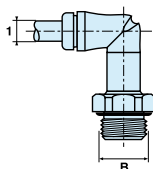
Tube Ø1	Thread A	Plastic Order code	Box Qty	Metal Order code	Box Qty
4	1/8	C63PMK4-1/8	30	C63PB4-1/8	20
4	1/4	C63PMK4-1/4	20	C63PB4-1/4	20
6	1/8	C63PMK6-1/8	20	C63PB6-1/8	20
6	1/4	C63PMK6-1/4	20	C63PB6-1/4	20
8	1/8	C63PK8-1/8	20	C63PB8-1/8	20
8	1/4	C63PK8-1/4	20	C63PB8-1/4	10
8	3/8	C63PK8-3/8	10	C63PB8-3/8	10
10	1/4	C63PK10-1/4	10	C63PB10-1/4	10
10	3/8	C63PK10-3/8	10	C63PB10-3/8	10
10	1/2	C63PK10-1/2	10		
12	1/4	C63PK12-1/4	10	C63PB12-1/4	10
12	3/8	C63PK12-3/8	10	C63PB12-3/8	10
12	1/2	C63PK12-1/2	10	C63PB12-1/2	5
14	3/8	C63PK14-3/8	10	C63PB14-3/8	5
14	1/2	C63PK14-1/2	10	C63PB14-1/2	5

Compact adjustable male elbow - Parallel



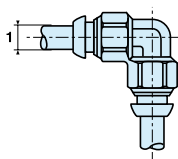
Tube Ø1	Thread B	Plastic Order code	Box Qty	Metal Order code	Box Qty
4	M5x0,8	C68SPK4M5	20	C68SPB4M5	10
4	1/8	C64SPK4-1/8	20	C64SPB4-1/8	10
4	1/4	C64SPK4-1/4	20		
6	1/8	C64SPK6-1/8	20	C64SPB6-1/8	10
6	1/4	C64SPK6-1/4	20	C64SPB6-1/4	10
8	1/8	C64SPK8-1/8	20	C64SPB8-1/8	10
8	1/4	C64SPK8-1/4	20	C64SPB8-1/4	10
8	3/8	C64SPK8-3/8	10	C64SPB8-3/8	10
10	1/4			C64SPB10-1/4	10
10	3/8			C64SPB10-3/8	10
12	1/4			C64SPB12-1/4	10
12	3/8			C64SPB12-3/8	5
12	1/2			C64SPB12-1/2	5

Adjustable extended male elbow - Parallel



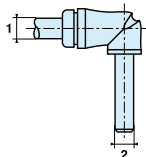
Tube Ø1	Thread B	Plastic Order code	Box Qty
4	1/8	C64LPMK4-1/8	10
4	1/4	C64LPMK4-1/4	10
6	1/8	C64LPMK6-1/8	10
6	1/4	C64LPMK6-1/4	10

Equal union elbow



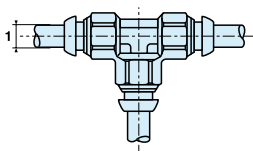
Tube Ø1	Plastic Order code	Box Qty	Metal Order code	Box Qty
4	EPMK4	20	EPB4	20
6	EPMK6	20	EPB6	20
8	EPK8	20	EPB8	10
10	EPK10	10	EPB10	10
12	EPK12	10	EPB12	10
14	EPK14	10	EPB14	5

Compact plug in elbow



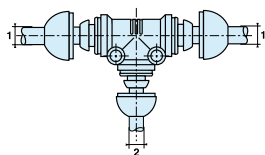
Tube Ø1	Tube Ø2	Plastic Order code	Box Qty
4	4	T2ESPMK4	20
6	6	T2ESPMK6	20
4	6	T2ESPMK4-6	30
8	8	T2ESPK8	20

Equal union tee



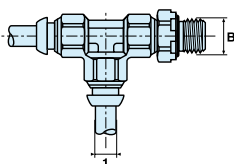
Tube Ø1	Plastic Order code	Box Qty	Metal Order code	Box Qty
4	JPMK4	20	JPB4	10
6	JPMK6	20	JPB6	10
8	JPK8	10	JPB8	10
10	JPK10	10	JPB10	10
12	JPK12	10	JPB12	5
14	JPK14	5	JPB14	5

Unequal union tee



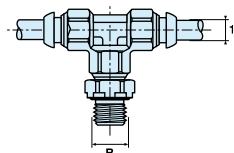
Tube Ø1	Tube Ø2	Plastic Order code	Box Qty
6	4	JPK6-6-4	10
8	6	JPK8-8-6	10
10	8	JPK10-10-8	10
12	10	JPK12-12-10	10
4	6	JPK4-4-6	10
6	8	JPK6-6-8	10
8	10	JPK8-8-10	10
10	12	JPK10-10-12	5

Adjustable male run tee - Parallel



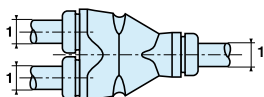
Tube Ø1	Thread B	Plastic Order code	Box Qty	Metal Order code	Box Qty
4	M5x0,8	R68PMK4M5	10	R68PB4M5	10
6	M5x0,8	R68PMK6M5	10	R68PB6M5	10
4	1/8	R64PMK4-1/8	10	R64PB4-1/8	10
4	1/4	R64PMK4-1/4	10	R64PB4-1/4	10
6	1/8	R64PMK6-1/8	10	R64PB6-1/8	10
6	1/4	R64PMK6-1/4	10	R64PB6-1/4	10
8	1/8	R64PK8-1/8	10	R64PB8-1/8	10
8	1/4	R64PK8-1/4	10	R64PB8-1/4	10
8	3/8	R64PK8-3/8	10	R64PB8-3/8	10
10	1/4	R64PK10-1/4	10	R64PB10-1/4	5
10	3/8	R64PK10-3/8	5	R64PB10-3/8	5
12	1/4	R64PK12-1/4	5	R64PB12-1/4	5
12	3/8	R64PK12-3/8	5	R64PB12-3/8	5
14	3/8	R64PK14-3/8	5	R64PB14-3/8	3
14	1/2	R64PK14-1/2	5	R64PB14-1/2	3

Adjustable male branch tee - Parallel



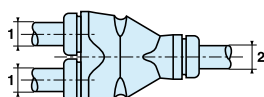
Tube Ø1	Thread B	Plastic Order code	Box Qty	Metal Order code	Box Qty
4	M3x0,5	S68PMK4M3	10		
4	M5x0,8	S68PMK4M5	10	S68PB4M5	10
6	M5x0,8	S68PMK6M5	10	S68PB6M5	10
4	1/8	S64PMK4-1/8	10	S64PB4-1/8	10
4	1/4	S64PMK4-1/4	10	S64PB4-1/4	10
6	1/8	S64PMK6-1/8	10	S64PB6-1/8	10
6	1/4	S64PMK6-1/4	10	S64PB6-1/4	10
8	1/8	S64PK8-1/8	10	S64PB8-1/8	10
8	1/4	S64PK8-1/4	10	S64PB8-1/4	5
8	3/8	S64PK8-3/8	10	S64PB8-3/8	5
10	1/4	S64PK10-1/4	10	S64PB10-1/4	5
10	3/8	S64PK10-3/8	5	S64PB10-3/8	5
12	1/4	S64PK12-1/4	5	S64PB12-1/4	5
12	3/8	S64PK12-3/8	5	S64PB12-3/8	5
14	3/8	S64PK14-3/8	5	S64PB14-3/8	3
14	1/2	S64PK14-1/2	5	S64PB14-1/2	3

Equal union Y connector



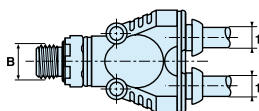
Tube Ø1	Plastic Order code	Box Qty
4	YJPMK4	20
6	YJPMK6	10
8	YJPK8	10
10	YJPK10	10

Unequal union Y connector



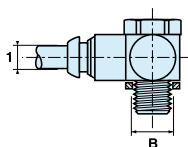
Tube Ø1	Tube Ø2	Plastic Order code	Box Qty
3	4	YJPMK4-3	10
3	6	YJPMK6-3	10
4	6	YJPMK6-4	10
6	8	YJPK6-6-8	10
8	10	YJPK8-8-10	5

Adjustable male Y connector - Parallel



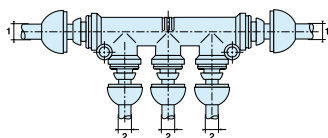
Tube Ø1	Thread B	Plastic Order code	Box Qty
4	M5x0,8	YJ68PMK4M5	10
6	M5x0,8	YJ68PMK6M5	10
4	1/8	YJ64PK4-1/8	10
4	1/4	YJ64PK4-1/4	10
6	1/8	YJ64PK6-1/8	10
6	1/4	YJ64PK6-1/4	10
8	1/8	YJ64PK8-1/8	5
8	1/4	YJ64PK8-1/4	5

Single banjo - assembled - Parallel



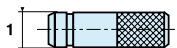
Tube Ø1	Tube Ø2	Metal Order code	Box Qty
4	M5x0,8	COR8PB4M5	20
4	1/8	COR4PB4-1/8	10
6	1/8	COR4PB6-1/8	20
6	1/4	COR4PB6-1/4	20
8	1/8	COR4PB8-1/8	10
8	1/4	COR4PB8-1/4	20
10	3/8	COR4PB10-3/8	10

Multiple tee - 5 connections



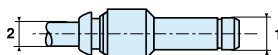
Tube Ø1	Tube Ø2	Plastic Order code	Box Qty
6	4	J5PK6-4	10
8	4	J5PK8-4	5
8	6	J5PK8-6	5
10	6	J5PK10-6	5

Plug



Tube Ø1	Plastic Order code	Box Qty	Metal Order code	Box Qty
4	FNPK4	50	FNPB4	50
6	FNPK6	50	FNPB6	50
8	FNPK8	50	FNPB8	50
10	FNPK10	50	FNPB10	30
12	FNPK12	30	FNPB12	20
14	FNPK14	30	FNPB14	20

Tube end reducer



Tube Ø1	Tube Ø2	Plastic Order code	Box Qty	Metal Order code	Box Qty
4	3	TR2PMK4-3	20		
6	4	TR2PK6-4	40	TRPB6-4	20
8	4	TR2PK8-4	40	TRPB8-4	20
8	6	TR2PK8-6	30	TRPB8-6	10
10	4	TR2PK10-4	30	TRPB10-4	10
10	6	TR2PK10-6	30	TRPB10-6	10
10	8	TR2PK10-8	20	TRPB10-8	10
12	6	TR2PK12-6	20	TRPB12-6	10
12	8	TR2PK12-8	20	TRPB12-8	10
12	10	TR2PK12-10	10	TRPB12-10	10
14	8	TR2PK14-8	20	TRPB14-8	10
14	10	TR2PK14-10	10	TRPB14-10	10
14	12	TR2PK14-12	10	TRPB14-12	5

LF3000: Polymer Instant Fittings - Threaded

-20°C to +80°C
20 bar max. (vacuum 755 mmHg)

3101 Male Stud Fitting BSPP & M5

ØD	C	Order code
4	M5 x 0.8	3101 04 19
4	G1/8	3101 04 10
4	G1/4	3101 04 13
6	M5 x 0.8	3101 06 19
6	G1/8	3101 06 10
6	G1/4	3101 06 13
6	G3/8	3101 06 17
8	G1/8	3101 08 10
8	G1/4	3101 08 13
8	G3/8	3101 08 17
10	G1/4	3101 10 13
10	G3/8	3101 10 17
10	G1/2	3101 10 21
12	G3/8	3101 12 17
12	G1/2	3101 12 21
14	G3/8	3101 14 17
14	G1/2	3101 14 21

3199 Male Stud Elbow, BSPP & M5

ØD	C	Order code
4	M5 x 0.8	3199 04 19
4	G1/8	3199 04 10
4	G1/4	3199 04 13
6	M5 x 0.8	3199 06 19
6	G1/8	3199 06 10
6	G1/4	3199 06 13
6	G3/8	3199 06 17
8	G1/8	3199 08 10
8	G1/4	3199 08 13
8	G3/8	3199 08 17
8	G1/2	3199 08 21
10	G1/4	3199 10 13
10	G3/8	3199 10 17
10	G1/2	3199 10 21
12	G1/4	3199 12 13
12	G3/8	3199 12 17
12	G1/2	3199 12 21
14	G3/8	3199 14 17
14	G1/2	3199 14 21

3175 Male Stud Fitting BSPT

ØD	C	Order code
4	R1/8	3175 04 10
4	R1/4	3175 04 13
6	R1/8	3175 06 10
6	R1/4	3175 06 13
6	R3/8	3175 06 17
6	R1/2	3175 06 21
8	R1/8	3175 08 10
8	R1/4	3175 08 13
8	R3/8	3175 08 17
10	R1/4	3175 10 13
10	R3/8	3175 10 17
10	R1/2	3175 10 21
12	R3/8	3175 12 17
12	R1/2	3175 12 21
14	R3/8	3175 14 17
14	R1/2	3175 14 21

3169 Extended Male Stud Elbow, BSPP & M5

ØD	C	Order code
4	M5 x 0.8	3169 04 19
4	G1/8	3169 04 10
4	G1/4	3169 04 13
6	M5 x 0.8	3169 06 19
6	G1/8	3169 06 10
6	G1/4	3169 06 13
8	G1/8	3169 08 10
8	G1/4	3169 08 13
8	G3/8	3169 08 17
10	G1/4	3169 10 13
10	G3/8	3169 10 17
10	G1/2	3169 10 21
12	G1/4	3169 12 13
12	G3/8	3169 12 17
12	G1/2	3169 12 21
14	G3/8	3169 14 17
14	G1/2	3169 14 21

3114 Female Stud Fitting BSPP & M5

ØD	C	Order code
4	M5 x 0.8	3114 04 19
4	G1/8	3114 04 10
4	G1/4	3114 04 13
6	G1/8	3114 06 10
6	G1/4	3114 06 13
8	G1/8	3114 08 10
8	G1/4	3114 08 13
10	G1/4	3114 10 13
10	G3/8	3114 10 17
10	G1/2	3114 10 21
12	G3/8	3114 12 17
12	G1/2	3114 12 21
14	G3/8	3114 14 17

3129 Extended Male Stud Elbow, BSPT

ØD	C	Order code
4	R1/8	3129 04 10
4	R1/4	3129 04 13
6	R1/8	3129 06 10
6	R1/4	3129 06 13
8	R1/8	3129 08 10
8	R1/4	3129 08 13
8	R3/8	3129 08 17
10	R1/4	3129 10 13
10	R3/8	3129 10 17
10	R1/2	3129 10 21
12	R1/4	3129 12 13
12	R3/8	3129 12 17
12	R1/2	3129 12 21
14	R3/8	3129 14 17
14	R1/2	3129 14 21

LF3000: Polymer Instant Fittings - Threaded

-20°C to +80°C
20 bar max. (vacuum 755 mmHg)

3109 Male Stud Elbow, BSPT



ØD	C	Order code
4	R1/8	3109 04 10
4	R1/4	3109 04 13
4	R3/8	3109 04 17
6	R1/8	3109 06 10
6	R1/4	3109 06 13
6	R3/8	3109 06 17
8	R1/8	3109 08 10
8	R1/4	3109 08 13
8	R3/8	3109 08 17
8	R1/2	3109 08 21
10	R1/8	3109 10 10
10	R1/4	3109 10 13
10	R3/8	3109 10 17
10	R1/2	3109 10 21
12	R1/4	3109 12 13
12	R3/8	3109 12 17
12	R1/2	3109 12 21
14	R3/8	3109 14 17
14	R1/2	3109 14 21

3198 Male Stud Branch Tee BSPP & M5



ØD	C	Order code
4	M5 x 0.8	3198 04 19
4	G1/8	3198 04 10
4	G1/4	3198 04 13
6	M5 x 0.8	3198 06 19
6	G1/8	3198 06 10
6	G1/4	3198 06 13
8	G1/8	3198 08 10
8	G1/4	3198 08 13
8	G3/8	3198 08 17
10	G1/4	3198 10 13
10	G3/8	3198 10 17
10	G1/2	3198 10 21
12	G1/4	3198 12 13
12	G3/8	3198 12 17
12	G1/2	3198 12 21
14	G3/8	3198 14 17
14	G1/2	3198 14 21

3192 Female Stud Elbow BSPP



ØD	C	Order code
4	G1/8	3192 04 10
4	G1/4	3192 04 13
6	G1/8	3192 06 10
6	G1/4	3192 06 13
8	G1/8	3192 08 10
8	G1/4	3192 08 13
8	G3/8	3192 08 17
10	G1/4	3192 10 13
10	G3/8	3192 10 17
10	G1/2	3192 10 21
12	G1/2	3192 12 21

3133 45° Male Elbow, BSPP & M5



ØD	C	Order code
4	M5 x 0.8	3133 04 19
4	G1/8	3133 04 10
6	M5 x 0.8	3133 06 19
6	G1/8	3133 06 10
6	G1/4	3133 06 13
8	G1/8	3133 08 10
8	G1/4	3133 08 13
8	G3/8	3133 08 17
10	G1/4	3133 10 13
10	G3/8	3133 10 17
10	G1/2	3133 10 21
12	G1/4	3133 12 13
12	G3/8	3133 12 17
12	G1/2	3133 12 21

3108 Male Stud Branch Tee, BSPT



ØD	C	Order code
4	R1/8	3108 04 10
4	R1/4	3108 04 13
6	R1/8	3108 06 10
6	R1/4	3108 06 13
8	R1/8	3108 08 10
8	R1/4	3108 08 13
8	R3/8	3108 08 17
10	R1/4	3108 10 13
10	R3/8	3108 10 17
10	R1/2	3108 10 21
12	R1/4	3108 12 13
12	R3/8	3108 12 17
12	R1/2	3108 12 21
14	R3/8	3108 14 17
14	R1/2	3108 14 21

3113 45° Male Elbow, BSPT



ØD	C	Order code
4	R1/8	3113 04 10
6	R1/8	3113 06 10
6	R1/4	3113 06 13
8	R1/8	3113 08 10
8	R1/4	3113 08 13
8	R3/8	3113 08 17
10	R1/4	3113 10 13
10	R3/8	3113 10 17
10	R1/2	3113 10 21
12	R1/4	3113 12 13
12	R3/8	3113 12 17
12	R1/2	3113 12 21

LF3000: Polymer Instant Fittings - Threaded

-20°C to +80°C
20 bar max. (vacuum 755 mmHg)

3193 Male Stud Run Tee, BSPP & M5

ØD	C	Order code
4	M5 x 0.8	3193 04 19
4	G1/8	3193 04 10
4	G1/4	3193 04 13
6	M5 x 0.8	3193 06 19
6	G1/8	3193 06 10
6	G1/4	3193 06 13
8	G1/8	3193 08 10
8	G1/4	3193 08 13
8	G3/8	3193 08 17
10	G1/4	3193 10 13
10	G3/8	3193 10 17
10	G1/2	3193 10 21
12	G1/4	3193 12 13
12	G3/8	3193 12 17
12	G1/2	3193 12 21
14	G3/8	3193 14 17
14	G1/2	3193 14 21

3131 Male Standpipe BSPP

ØD	C	Order code
4	M5 x 0.8	3131 04 19
4	G1/8	3131 04 10
4	G1/4	3131 04 13
6	G1/8	3131 06 10
6	G1/4	3131 06 13
8	G1/8	3131 08 10
8	G1/4	3131 08 13
8	G3/8	3131 08 17
10	G1/4	3131 10 13
10	G3/8	3131 10 17
10	G1/2	3131 10 21
12	G3/8	3131 12 17
12	G1/2	3131 12 21
14	G3/8	3131 14 17
14	G1/2	3131 14 21

3103 Male Stud Run Tee, BSPT

ØD	C	Order code
4	R1/8	3103 04 10
4	R1/4	3103 04 13
6	R1/8	3103 06 10
6	R1/4	3103 06 13
8	R1/8	3103 08 10
8	R1/4	3103 08 13
8	R3/8	3103 08 17
10	R1/4	3103 10 13
10	R3/8	3103 10 17
10	R1/2	3103 10 21
12	R1/4	3103 12 13
12	R3/8	3103 12 17
12	R1/2	3103 12 21
14	R3/8	3103 14 17
14	R1/2	3103 14 21

3158 “Y” piece, BSPP

ØD	C	Order code
4	M5 x 0.8	3158 04 19
4	G1/8	3158 04 10
4	G1/4	3158 04 13
6	M5 x 0.8	3158 06 19
6	G1/8	3158 06 10
6	G1/4	3158 06 13
8	G1/8	3158 08 10
8	G1/4	3158 08 13
8	G3/8	3158 08 17
10	G1/4	3158 10 13
10	G3/8	3158 10 17
10	G1/2	3158 10 21
12	G3/8	3158 12 17
12	G1/2	3158 12 21

3121 Male Standpipe BSPT

ØD	C	Order code
4	R1/8	3121 04 10
4	R1/4	3121 04 13
6	R1/8	3121 06 10
6	R1/4	3121 06 13
8	R1/8	3121 08 10
8	R1/4	3121 08 13
8	R3/8	3121 08 17
10	R1/4	3121 10 13
10	R3/8	3121 10 17
10	R1/2	3121 10 21
12	R3/8	3121 12 17
12	R1/2	3121 12 21
14	R1/2	3121 14 21

3132 Male Double “Y” BSPP

ØD	C	Order code
4	G1/8	3132 04 10
4	G1/4	3132 04 13
6	G1/8	3132 06 10
6	G1/4	3132 06 13

LF3000: Polymer Instant Fittings - Threaded

-20°C to +80°C
20 bar max. (vacuum 755 mmHg)

3118 Single Banjo, BSPP & M5

ØD	C	Order code
4	M5 x 0.8	3118 04 19
4	G1/8	3118 04 10
6	M5 x 0.8	3118 06 19
6	G1/8	3118 06 10
6	G1/4	3118 06 13
8	G1/8	3118 08 10
8	G1/4	3118 08 13
8	G3/8	3118 08 17
10	G1/4	3118 10 13
10	G3/8	3118 10 17
10	G1/2	3118 10 21
12	G3/8	3118 12 17
12	G1/2	3118 12 21

3189 Oscillating Compact Elbow, BSPP

ØD	C	Order code
4	G1/8	3189 04 10
6	G1/8	3189 06 10
6	G1/4	3189 06 13
8	G1/8	3189 08 10
8	G1/4	3189 08 13
8	G3/8	3189 08 17
10	G1/4	3189 10 13
10	G3/8	3189 10 17
12	G1/4	3189 12 13
12	G3/8	3189 12 17

3149 Double Banjo, BSPP & M5

ØD	C	Order code
4	M5 x 0.8	3149 04 19
4	G1/8	3149 04 10
4	G1/4	3149 04 13
6	G1/8	3149 06 10
6	G1/4	3149 06 13
6	G3/8	3149 06 17
8	G1/4	3149 08 13
8	G3/8	3149 08 17
10	G3/8	3149 10 17

3391 Self-Sealing Male Stud Fitting, BSPP

ØD	C	Order code
4	G1/8	3391 04 10
6	G1/8	3391 06 10
8	G1/8	3391 08 10
8	G1/4	3391 08 13
10	G3/8	3391 10 17

3119 Double banjo, BSPP & M5

ØD	C	Order code
4	M5 x 0.8	3119 04 19
4	G1/8	3119 04 10
6	G1/8	3119 06 10
6	G1/4	3119 06 13
8	G1/4	3119 08 13
8	G3/8	3119 08 17
10	G3/8	3119 10 17

3124 Single Banjo with Female, BSPP & M5

ØD	C	Order code
4	M5 x 0.8	3124 04 19
4	G1/8	3124 04 10
6	G1/4	3124 06 13
8	G3/8	3124 08 17

LF3000: Polymer Instant Fittings - Union

-20°C to +80°C
20 bar max. (vacuum 755 mmHg)

3102 Equal Elbow



ØD	Order code
4	3102 04 00
6	3102 06 00
8	3102 08 00
10	3102 10 00
12	3102 12 00
14	3102 14 00

3140 Single "Y" piece - Equal & Unequal



ØD1	ØD2	Order code
4	4	3140 04 00
4	6	3140 04 06
6	6	3140 06 00
6	8	3140 06 08
8	8	3140 08 00

3104 Tee - Equal & Unequal



ØD1	ØD2	Order code
4	4	3104 04 00
4	6	3104 04 06
6	4	3104 06 04
6	6	3104 06 00
6	8	3104 06 08
8	6	3104 08 06
8	8	3104 08 00
8	10	3104 08 10
10	8	3104 10 08
10	10	3104 10 00
10	12	3104 10 12
12	10	3104 12 10
12	12	3104 12 00
14	8	3104 14 08
14	14	3104 14 00

3144 Multiple "Y" piece - Equal & Unequal



ØD1	ØD2	Order code
4	4	3144 04 04
4	6	3144 04 06
6	6	3144 06 06
6	8	3144 06 08

3304 Unequal Multiple Tee



ØD1	ØD2	Order code
6	4	3304 06 04
8	4	3304 08 04
8	6	3304 08 06
10	6	3304 10 06
10	8	3304 10 08

3106 Tube/Tube Connector - Equal & Unequal



ØD1	ØD2	Order code
4	4	3106 04 00
4	6	3106 04 06
4	8	3106 04 08
6	6	3106 06 00
6	8	3106 06 08
6	10	3106 06 10
8	8	3106 08 00
8	10	3106 08 10
8	12	3106 08 12
10	10	3106 10 00
10	12	3106 10 12
12	12	3106 12 00
12	14	3106 12 14
14	14	3106 14 00

3306 Unequal Multiple Elbow



ØD1	ØD2	Order code
6	4	3306 06 04
8	4	3306 08 04
8	6	3306 08 06
10	6	3306 10 06
10	8	3306 10 08

3107 Cross - Equal & Unequal



ØD1	ØD2	Order code
4	4	3107 04 00
4	6	3107 04 06
6	6	3107 06 00
6	8	3107 06 08
8	8	3107 08 00

LF3000: Polymer Instant Fittings - Union

-20°C to +80°C
20 bar max. (vacuum 755 mmHg)

3310 Manifold with LF3000

ØD1	ØD2	Order code
4	G1/4	3310 04 13
6	G1/4	3310 06 13
8	G3/8	3310 08 17
10	G1/2	3310 10 21
12	G1/2	3310 12 21

3182 Plug-In Equal Compact Elbow

ØD1	ØD2	Order code
4	4	3182 04 00
6	6	3182 06 00
8	8	3182 08 00
10	10	3182 10 00
12	12	3182 12 00

3151 Female Plug with Instant Connection

ØD	Order code
4	3151 04 00
6	3151 06 00
8	3151 08 00
10	3151 10 00
12	3151 12 00

3188 Plug-In Equal Compact Tee

ØD1	ØD2	Order code
4	4	3188 04 00
6	6	3188 06 00
8	8	3188 08 00
10	10	3188 10 00
12	12	3188 12 00

3116 Equal Bulkhead Connector

ØD	Order code
4	3116 04 00
6	3116 06 00
8	3116 08 00
10	3116 10 00
12	3116 12 00
14	3116 14 00

3183 Plug-In Equal Run Tee

ØD1	ØD2	Order code
4	4	3183 04 00
6	6	3183 06 00
8	8	3183 08 00
10	10	3183 10 00
12	12	3183 12 00

3136 Female Bulkhead Connector

ØD	C	Order code
4	G1/8	3136 04 10
4	G1/4	3136 04 13
6	G1/8	3136 06 10
6	G1/4	3136 06 13
6	G3/8	3136 06 17
8	G1/8	3136 08 10
8	G1/4	3136 08 13
10	G3/8	3136 10 17
12	G3/8	3136 12 17
12	G1/2	3136 12 21

3166 Reducer

ØD1	ØD2	Order code
4	6	3166 04 06
4	8	3166 04 08
4	10	3166 04 10
6	8	3166 06 08
6	10	3166 06 10
6	12	3166 06 12
6	14	3166 06 14
8	10	3166 08 10
8	12	3166 08 12
8	14	3166 08 14
10	12	3166 10 12
10	14	3166 10 14
12	14	3166 12 14

3139 Equal Bulkhead Elbow

ØD	Order code
4	3139 04 00
6	3139 06 00
8	3139 08 00
10	3139 10 00
12	3139 12 00
14	3139 14 00

3168 Increaser

ØD1	ØD2	Order code
6	4	3168 06 04
8	6	3168 08 06
10	8	3168 10 08
12	10	3168 12 10

LF3000: Polymer Instant Fittings - Union

-20°C to +80°C
20 bar max. (vacuum 755 mmHg)

3126 Blanking Plugs

	ØD	Order code
	4	3126 04 00
	6	3126 06 00
	8	3126 08 00
	10	3126 10 00
	12	3126 12 00
	14	3126 14 00

3320 Multi-Connector Male Screw Body

	o.d. tube	Number of outlets	Order code
	4	2	3320 04 00 02
	4	4	3320 04 00 04
	4	7	3320 04 00 07
	4	12	3320 04 00 12
	6	2	3320 06 00 02
	6	4	3320 06 00 04
	6	7	3320 06 00 07
	8	2	3320 08 00 02

Clip Strips for Tubes

	ØD	Order code
	4	Clip 04 00
	6	Clip 06 00
	8	Clip 08 00
	10	Clip 10 00
	12	Clip 12 00
	14	Clip 14 00

3321 Multi-Connector Female Screw Body

	o.d. tube	Number of outlets	Order code
	4	2	3321 04 00 02
	4	4	3321 04 00 04
	4	7	3321 04 00 07
	4	12	3321 04 00 12
	6	4	3321 06 00 04
	6	7	3321 06 00 07
	8	2	3321 08 00 02

3100 Carstick

	ØD	Order code
	4	3100 04 00
	6	3100 06 00
	8	3100 08 00
	10	3100 10 00
	12	3100 12 00
	14	3100 14 00

3329 Multi-Connector Screw Cap

	Number of outlets	Order code
	2	3329 00 01
	4 - 7	3329 00 02
	12	3329 00 03

Multi-Connector Assembly Photo**3379 DIN Rail Connector for 2 tubes in line**

	ØD	Order code
	4	3379 04 00
	6	3379 06 00
	8	3379 08 00

3381 DIN Rail Connector for 3 Tubes

	ØD	Order code
	4	3381 04 00
	6	3381 06 00
	8	3381 08 00

Function Fittings: Flow Control Regulators in Polymer

0°C to +70°C
from 1 to 10 bar max.

7060 Compact BSPP - exhaust (A)



ØD	C	Order code
4	G1/8	7060 04 10
6	G1/8	7060 06 10
6	G1/4	7060 06 13
8	G1/8	7060 08 10
8	G1/4	7060 08 13
8	G3/8	7060 08 17
10	G1/4	7060 10 13
10	G3/8	7060 10 17
12	G3/8	7060 12 17
12	G1/2	7060 12 21

7669 Miniature BSPP & M5 - supply (B)



ØD	C	Order code
4	M5 x 0.8	7669 04 19
4	G1/8	7669 04 10
6	M5 x 0.8	7669 06 19
6	G1/8	7669 06 10
6	G1/4	7669 06 13
8	G1/8	7669 08 10
8	G1/4	7669 08 13
8	G3/8	7669 08 17

7061 Compact BSPP - supply (B)



ØD	C	Order code
4	G1/8	7061 04 10
6	G1/8	7061 06 10
6	G1/4	7061 06 13
8	G1/8	7061 08 10
8	G1/4	7061 08 13
8	G3/8	7061 08 17
10	G1/4	7061 10 13
10	G3/8	7061 10 17
12	G1/2	7061 12 21

7010 Recessed Adjust.Screw,
BSPP & M5 - exhaust (A)

ØD	C	Order code
4	M5 x 0.8	7010 04 19
4	G1/8	7010 04 10
6	M5 x 0.8	7010 06 19
6	G1/8	7010 06 10
6	G1/4	7010 06 13
8	G1/8	7010 08 10
8	G1/4	7010 08 13
8	G3/8	7010 08 17
10	G1/4	7010 10 13
10	G3/8	7010 10 17
12	G3/8	7010 12 17
12	G1/2	7010 12 21

7062 Compact BSPP - bi-directional (C)



ØD	C	Order code
4	G1/8	7062 04 10
6	G1/8	7062 06 10
6	G1/4	7062 06 13
8	G1/8	7062 08 10
8	G1/4	7062 08 13
8	G3/8	7062 08 17

7011 Recessed Adjust.Screw,
BSPP & M5 - supply (B)

ØD	C	Order code
4	M5 x 0.8	7011 04 19
4	G1/8	7011 04 10
6	M5 x 0.8	7011 06 19
6	G1/8	7011 06 10
6	G1/4	7011 06 13
8	G1/8	7011 08 10
8	G1/4	7011 08 13
8	G3/8	7011 08 17
10	G1/4	7011 10 13
10	G3/8	7011 10 17

7660 Miniature BSPP & M5 - exhaust (A)



ØD	C	Order code
4	M5 x 0.8	7660 04 19
4	G1/8	7660 04 10
6	M5 x 0.8	7660 06 19
6	G1/8	7660 06 10
6	G1/4	7660 06 13
8	G1/8	7660 08 10
8	G1/4	7660 08 13
8	G3/8	7660 08 17

7012 Recessed Adjust.Screw,
BSPP & M5 - bi-directional (C)

ØD	C	Order code
4	M5 x 0.8	7012 04 19
4	G1/8	7012 04 10
6	M5 x 0.8	7012 06 19
6	G1/8	7012 06 10
6	G1/4	7012 06 13
8	G1/8	7012 08 10
8	G1/4	7012 08 13
8	G3/8	7012 08 17

7662 Miniature BSPP & M5 - bi-directional (C)



ØD	C	Order code
4	M5 x 0.8	7662 04 19
4	G1/8	7662 04 10
6	M5 x 0.8	7662 06 19
6	G1/8	7662 06 10
6	G1/4	7662 06 13

Function Fittings: Flow Control Regulators in Polymer

0°C to +70°C
from 1 to 10 bar max.

7040 Compact Swivel Elbow, BSPP - exhaust (A)



ØD	C	Order code
6	G1/8	7040 06 10
6	G1/4	7040 06 13
8	G1/8	7040 08 10
8	G1/4	7040 08 13
8	G3/8	7040 08 17
10	G1/4	7040 10 13
10	G3/8	7040 10 17
12	G3/8	7040 12 17
12	G1/2	7040 12 21

7772 - In-line with instant connection, Bi-directional (C)



ØD	Order code
4	7772 04 00
6	7772 06 00
8	7772 08 00

7041 Compact Swivel Elbow, BSPP - supply (B)



ØD	C	Order code
6	G1/4	7041 06 13
8	G1/8	7041 08 10
8	G1/4	7041 08 13

7771 In-line with Threaded Connections, BSPP, One-Way Adjust (A)



C	Order code
G1/8	7771 10 10
G1/4	7771 13 13
G3/8	7771 17 17
G1/2	7771 21 21

7640 Miniature BSPP & Metric - exhaust (A)



ØD	C	Order code
4	M5 x 0,8	7640 04 19
4	G1/8	7640 04 10
6	M5 x 0,8	7640 06 19
6	G1/8	7640 06 10

7776 - In-line with instant connection, One-Way Adjust (A), Panel Mountable



ØD	Order code
4	7776 04 00
6	7776 06 00
8	7776 08 00
10	7776 10 00
12	7776 12 00

7649 Miniature BSPP & Metric - supply (B)



ØD	C	Order code
4	M5 x 0,8	7649 04 19
4	G1/8	7649 04 10
6	M5 x 0,8	7649 06 19
6	G1/8	7649 06 10

7770 - In-line with instant connection, One-Way Adjust (A)



ØD	Order code
4	7770 04 00
6	7770 06 00
8	7770 08 00
10	7770 10 00
12	7770 12 00

Function Fittings: Flow Control Regulators in Brass

0°C to +70°C
from 1 to 10 bar max.

7100 Compact with instant connection, BSPP - exhaust (A)



ØD	C	Order code
4	G1/8	7100 04 10
6	G1/8	7100 06 10
6	G1/4	7100 06 13
8	G1/8	7100 08 10
8	G1/4	7100 08 13
8	G3/8	7100 08 17
10	G1/4	7100 10 13
10	G3/8	7100 10 17
12	G3/8	7100 12 17
12	G1/2	7100 12 21
14	G1/2	7100 14 21

7130 Recessed Adjust.Screw, BSPP & M5 - exhaust (A)



ØD	C	Order code
4	G1/8	7130 04 10
4	M5 x 0.8	7130 04 19
6	G1/8	7130 06 10
6	G1/4	7130 06 13
6	M5 x 0.8	7130 06 19
8	G1/8	7130 08 10
8	G1/4	7130 08 13
8	G3/8	7130 08 17
10	G1/4	7130 10 13
10	G3/8	7130 10 17
10	G1/2	7130 10 21
12	G3/8	7130 12 17
12	G1/2	7130 12 21

7101 Compact with instant connection, BSPP - supply (B)



ØD	C	Order code
4	G1/8	7101 04 10
6	G1/8	7101 06 10
6	G1/4	7101 06 13
8	G1/8	7101 08 10
8	G1/4	7101 08 13
8	G3/8	7101 08 17

7140 Threaded Recessed Adjust.Screw, BSPP & M5 - exhaust (A)



C	Order code
M5 x 0.8	7140 19 19
G1/8	7140 10 10
G1/4	7140 13 13
G3/8	7140 17 17
G1/2	7140 21 21

7110 Compact with Threaded Fitting, BSPP - exhaust (A)



C	Order code
G1/8	7110 10 10
G1/4	7110 13 13
G3/8	7110 17 17
G1/2	7110 21 21
G1/8	7111 10 10
G1/4	7111 13 13

7160 with Universal Brass Compression Fitting, Recessed Adjust. Screw, BSP - exhaust (A)



ØD	C	Order code
4	G1/8	7160 04 10
6	G1/8	7160 06 10
6	G1/4	7160 06 13
8	G1/8	7160 08 10
8	G1/4	7160 08 13
10	G1/4	7160 10 13
10	G3/8	7160 10 17
10	G1/2	7160 10 21
12	G3/8	7160 12 17
12	G1/2	7160 12 21

7111 Compact with Threaded Fitting, BSPP - supply (B)



C	Order code
G1/8	7111 10 10
G1/4	7111 13 13

7762 with Universal Brass Compression Fitting, external adjust, BSPP - exhaust (A)



ØD	C	Order code
8	G1/8	7762 08 10
10	G1/4	7762 10 13
14	G3/8	7762 14 17
18	G1/2	7762 18 21

7170 In-line Flow Regulator, BSPP & M5



Body in aluminium

C	Order code
M5	7170 19 19
G1/8	7170 10 10
G1/4	7170 13 13
G3/8	7170 17 17
G1/2	7170 21 21

Function Fittings

7880 Blocking Fitting, Male Thread BSPP, with instant connection



ØD	C	Order code
6	G1/8	7880 06 10
6	G1/4	7880 06 13
8	G1/4	7880 08 13
8	G3/8	7880 08 17
10	G3/8	7880 10 17
12	G1/2	7880 12 21

7881 Blocking Fitting, Male, Threaded Port, BSPP



C1	C2	Order code
G1/8	G1/4	7881 13 10
G1/4	G1/4	7881 13 13
G3/8	G3/8	7881 17 17
G1/2	G1/2	7881 21 21

7883 Blocking Fitting, Male Thread BSPP, with instant connection & flow regulator



ØD	C	Order code
4	G1/8	7883 04 10
6	G1/8	7883 06 10
6	G1/4	7883 06 13
8	G1/4	7883 08 13
8	G3/8	7883 08 17

7996 Non-Return Valve with instant connection



ØD	Order code
4	7996 04 00
6	7996 06 00
8	7996 08 00
10	7996 10 00
12	7996 12 00

7994 Non-Return Valve with instant connection, BSPP & M5 -exhaust (A)



ØD	C	Order code
4	M5 x 0.8	7994 04 19
4	G1/8	7994 04 10
6	G1/8	7994 06 10
6	G1/4	7994 06 13
8	G1/8	7994 08 10
8	G1/4	7994 08 13
10	G3/8	7994 10 17
12	G3/8	7994 12 17
12	G1/2	7994 12 21

from 1 to 10 bar max.

7984 Non-Return Valve with instant connection, BSPP & M5 -supply (B)



ØD	C	Order code
4	M5 x 0.8	7984 04 19
4	G1/8	7984 04 10
6	G1/8	7984 06 10
6	G1/4	7984 06 13
8	G1/8	7984 08 10
8	G1/4	7984 08 13
10	G3/8	7984 10 17
12	G3/8	7984 12 17
12	G1/2	7984 12 21

7818 Sensor Fitting with instant connection, pneumatic, BSPP & M5



C	Order code
M5 x 0.8	7818 04 19
G1/8	7818 04 10
G1/4	7818 04 13
G3/8	7818 04 17
G1/2	7818 04 21

7818 Sensor Fitting, Threaded Fittings, pneumatic, BSPP & M5



C	Order code
G1/8	7818 19 10
G1/4	7818 19 13

7828 Sensor Fitting, Pneumatic/Electric BSPP & M5



C	Order code
M5 x 0.8	7828 00 19
G1/8	7828 00 10
G1/4	7828 00 13
G3/8	7828 00 17
G1/2	7828 00 21

Function Fittings

from 1 to 10 bar max.

7300 Pressure Regulator Fitting with instant connection, BSPP



ØD	C	Order code
4	G1/8	7300 04 10
6	G1/8	7300 06 10
6	G1/4	7300 06 13
8	G1/8	7300 08 10
8	G1/4	7300 08 13
8	G3/8	7300 08 17
10	G1/4	7300 10 13
10	G3/8	7300 10 17

7861 Soft Start Valve with Threaded Fitting, BSPP - for system isolating valve



C	Order code
G1/4	7861 13 13
G3/8	7861 17 17
G1/2	7861 21 21

7318 Pressure Reducer, with instant connection, BSPP



ØD	C	Order code
6	G1/8	7318 06 10
6	G1/4	7318 06 13
8	G1/4	7318 08 13
10	G1/4	7318 10 13
10	G3/8	7318 10 17

7800 3/2 Manual Switch Operated Valve, with instant connection BSPP & M5 (supply)



ØD	C	Order code
4	M5 x 0.8	7800 04 19
4	G1/8	7800 04 10
6	M5 x 0.8	7800 06 19
6	G1/8	7800 06 10
6	G1/4	7800 06 13
8	G1/8	7800 08 10
8	G1/4	7800 08 13
10	G1/4	7800 10 13

7316 Pressure Reducer, In-Line with instant connection



ØD	Order code
6	7316 06 00
8	7316 08 00
10	7316 10 00

7801 3/2 Manual Switch Operated Valve, with instant connection BSPP & M5 (control)



ØD	C	Order code
4	G1/8	7801 04 10
6	G1/8	7801 06 10
6	G1/4	7801 06 13
8	G1/8	7801 08 10
8	G1/4	7801 08 13
10	G1/4	7801 10 13

7860 Soft Start Valve with instant connection, BSPP - for System isolating valve



ØD	C	Order code
8	G1/4	7860 08 13
10	G1/4	7860 10 13
10	G3/8	7860 10 17
12	G3/8	7860 12 17
12	G1/2	7860 12 21

7970 Elbow Quick Exhaust Valve, BSPP



C	Order code
M5	7970 19 19
G1/8	7970 10 10
G1/4	7970 13 13
G3/8	7970 17 17
G1/2	7970 21 21
G3/4	7970 27 27
G1"	7970 34 34

7870 Soft Start Valve with instant connection, BSPP - for Control valve



ØD	C	Order code
8	G1/4	7870 08 13
10	G1/4	7870 10 13
10	G3/8	7870 10 17

7971 In-Line Quick Exhaust Valve male BSPT, female BSPP



C	Order code
G1/8	7971 10 10
G1/4	7971 13 13
G3/8	7971 17 17
G1/2	7971 21 21

Function Fittings

from 1 to 10 bar max.

0669 Sleeve Valve, Double Female, BSPP & M5



C	DN	Order code
M5 x 0.8	2	0669 02 19
G1/8	4	0669 04 10
G1/4	7	0669 07 13
G3/8	10	0669 10 17
G1/2	14	0669 14 21
G3/4	19	0669 19 27

7913 Mini Ball Valves, 3/2 version, with vent, with instant connection



ØD	Order code
4	7913 04 00
6	7913 06 00
8	7913 08 00
10	7913 10 00
12	7913 12 00

7914 Mini Ball Valves 3/2 version, with vent, with BSPP thread & instant connection



ØD	C	Order code
6	G1/8	7914 06 10
8	G1/4	7914 08 13
10	G3/8	7914 10 17
12	G1/2	7914 12 21

7910 Mini Ball Valves, 2/2 version, with instant connection



ØD	Order code
4	7910 04 00
6	7910 06 00
8	7910 08 00
10	7910 10 00
12	7910 12 00

7911 Mini Ball Valves, 2/2 Version with BSPP thread & instant connection



ØD	C	Order code
6	G1/8	7911 06 10
8	G1/4	7911 08 13
10	G3/8	7911 10 17
12	G1/2	7911 12 21

0670 Threaded Silencer, BSPP

-20° to +150°C
12 bar

C	Order code
G1/8	0670 00 10
G1/4	0670 00 13
G3/8	0670 00 17
G1/2	0670 00 21
G3/4	0670 00 27

0673 Threaded Silencer, Male BSPP & M5

-20° to +150°C
12 bar

C	Order code
M5 x 0.8	0673 00 19
G1/8	0673 00 10
G1/4	0673 00 13
G3/8	0673 00 17
G1/2	0673 00 21

0672 Flow-Control Silencer, Male BSPP

-20° to +150°C
12 bar

C	Order code
G1/8	0672 00 10
G1/4	0672 00 13
G3/8	0672 00 17
G1/2	0672 00 21

0674 Threaded Silencer, Male BSPP & M5

-10° to +80°C
10 bar

C	Order code
M5 x 0.8	0674 00 19
G1/8	0674 00 10
G1/4	0674 00 13
G3/8	0674 00 17
G1/2	0674 00 21
G3/4	0674 00 27

0677 Silencer, Miniature, BSPP

-20° to +150°C
12 bar

C	Order code
G1/8	0677 00 10
G1/4	0677 00 13
G3/8	0677 00 17
G1/2	0677 00 21
G3/4	0677 00 27
G1"	0677 00 34

Universal Compression Fittings

-40°C to +250°C / 550 bar max.
(depending on the tubing material)

0105 Male Stud Coupling, BSPT



ØD	C	Order code
6	R1/8	0105 06 10
6	R1/4	0105 06 13
8	R1/8	0105 08 10
8	R1/4	0105 08 13
8	R3/8	0105 08 17
10	R1/4	0105 10 13
10	R3/8	0105 10 17
12	R3/8	0105 12 17
12	R1/2	0105 12 21
16	R1/4	0105 16 13
18	R1/2	0105 18 21

0106 Equal Straight Coupling



ØD	Order code
4	0106 04 00
5	0106 05 00
6	0106 06 00
8	0106 08 00
10	0106 10 00
12	0106 12 00
14	0106 14 00
16	0106 16 00
18	0106 18 00
22	0106 22 00

0109 Male Stud Elbow, BSPT



ØD	C	Order code
6	R1/8	0109 06 10
6	R1/4	0109 06 13
8	R1/8	0109 08 10
8	R1/4	0109 08 13
10	R1/4	0109 10 13
10	R3/8	0109 10 17
12	R1/4	0109 12 13
12	R1/2	0109 12 21
16	R1/4	0109 16 21

0104 Equal Tee



ØD	Order code
4	0104 04 00
6	0104 06 00
8	0104 08 00
10	0104 10 00
12	0104 12 00
14	0104 14 00
15	0104 15 00
16	0104 16 00
18	0104 18 00
22	0104 22 00

0101 Male Stud Coupling, BSPP and Metric Thread



ØD	C	Order code
6	G1/8	0101 06 10
6	G1/4	0101 06 13
8	G1/8	0101 08 10
8	G1/4	0101 08 13
10	G1/4	0101 10 13
10	G3/8	0101 10 17
12	G3/8	0101 12 17
16	G1/2	0101 16 21

0102 Equal Elbow



ØD	Order code
6	0102 06 00
8	0102 08 00
10	0102 10 00
12	0102 12 00
14	0102 14 00
15	0102 15 00
16	0102 16 00
18	0102 18 00
20	0102 20 00
22	0102 22 00

0118 Single Banjo, BSPP



ØD	C	Order code
6	G1/8	0118 06 10
6	G1/4	0118 06 13
8	G1/8	0118 08 10
8	G1/4	0118 08 13
10	G1/4	0118 10 13
10	G3/8	0118 10 17
12	G3/8	0118 12 17
16	G1/2	0118 16 21

0122 Tailpiece Adaptor for Rubber Hose



ØD1	ØD2	Order code
4	4	0122 04 04
5	4	0122 05 04
6	4	0122 06 04
8	6	0122 08 06
10	7	0122 10 07
12	10	0122 12 10
14	13	0122 14 13
15	13	0122 15 13
16	13	0122 16 13
18	16	0122 18 16

LF3600: Chemical Nickel-Plated Brass Instant Fittings

-20°C to +150°C
30 bar max.

3601 Male Stud, BSPP & M5



ØD	C	Order code
4	M5 x 0,8	3601 04 19
4	G1/8	3601 04 10
4	G1/4	3601 04 13
6	M5 x 0,8	3601 06 19
6	G1/8	3601 06 10
6	G1/4	3601 06 13
8	G1/8	3601 08 10
8	G1/4	3601 08 13
8	G3/8	3601 08 17
10	G1/4	3601 10 13
10	G3/8	3601 10 17
10	G1/2	3601 10 21
12	G1/4	3601 12 13
12	G3/8	3601 12 17
12	G1/2	3601 12 21
14	G3/8	3601 14 17
14	G1/2	3601 14 21

3699 Male Stud Elbow, BSPP & M5



20 bar max.

ØD	C	Order code
4	M5 x 0,8	3699 04 19
4	G1/8	3699 04 10
4	G1/4	3699 04 13
6	G1/8	3699 06 10
6	G1/4	3699 06 13
8	G1/8	3699 08 10
8	G1/4	3699 08 13
8	G3/8	3699 08 17
10	G1/4	3699 10 13
10	G3/8	3699 10 17
12	G1/4	3699 12 13
12	G3/8	3699 12 17
12	G1/2	3699 12 21
14	G3/8	3699 14 17
14	G1/2	3699 14 21

3675 Male Stud, BSPT



ØD	C	Order code
4	R1/8	3675 04 10
4	R1/4	3675 04 13
6	R1/8	3675 06 10
6	R1/4	3675 06 13
8	R1/8	3675 08 10
8	R1/4	3675 08 13
8	R3/8	3675 08 17
10	R1/4	3675 10 13
10	R3/8	3675 10 17
10	R1/2	3675 10 21
12	R1/4	3675 12 13
12	R3/8	3675 12 17
12	R1/2	3675 12 21
14	R3/8	3675 14 17
14	R1/2	3675 14 21

3609 Male Stud Elbow, BSPT



20 bar max.

ØD	C	Order code
4	R1/8	3609 04 10
4	R1/4	3609 04 13
6	R1/8	3609 06 10
6	R1/4	3609 06 13
8	R1/8	3609 08 10
8	R1/4	3609 08 13
8	R3/8	3609 08 17
10	R1/4	3609 10 13
10	R3/8	3609 10 17
12	R1/4	3609 12 13
12	R3/8	3609 12 17
12	R1/2	3609 12 21
14	R3/8	3609 14 17
14	R1/2	3609 14 21

3614 Female Stud, BSPP & Metric



ØD	C	Order code
4	M5 x 0,8	3614 04 19
4	G1/8	3614 04 10
4	G1/4	3614 04 13
6	G1/8	3614 06 10
6	G1/4	3614 06 13
8	G1/8	3614 08 10
8	G1/4	3614 08 13
10	G3/8	3614 10 17
12	G3/8	3614 12 17
12	G1/2	3614 12 21

3669 Extended Male Stud Elbow, BSPP & M5



ØD	C	Order code
4	M5 x 0,8	3669 04 19
4	G1/8	3669 04 10
6	G1/8	3669 06 10
6	G1/4	3669 06 13
8	G1/8	3669 08 10
8	G1/4	3669 08 13
10	G1/4	3669 10 13
10	G3/8	3669 10 17
12	G1/4	3669 12 13
12	G3/8	3669 12 17
14	G1/2	3669 14 21

LF3600: Chemical Nickel-Plated Brass Instant Fittings-20°C to +150°C
30 bar max.**3698 Male Stud Branch Tee, BSPP & M5**

ØD	C	Order code
4	M5 x 0.8	3698 04 19
4	G1/8	3698 04 10
6	G1/8	3698 06 10
6	G1/4	3698 06 13
8	G1/8	3698 08 10
8	G1/4	3698 08 13
10	G1/4	3698 10 13
12	G3/8	3698 12 17
14	G1/2	3698 14 21

3606 Equal Tube to Tube Connector

ØD	Order code
4	3606 04 00
6	3606 06 00
8	3606 08 00
10	3606 10 00
12	3606 12 00
14	3606 14 00

3693 Male Stud Run Tee, BSPP & M5

ØD	C	Order code
4	M5 x 0.8	3693 04 19
4	G1/8	3693 04 10
6	G1/8	3693 06 10
6	G1/4	3693 06 13
8	G1/8	3693 08 10
8	G1/4	3693 08 13
10	G1/4	3693 10 13
12	G3/8	3693 12 17
14	G1/2	3693 14 21

3616 Equal Bulkhead Connector

ØD	Order code
4	3616 04 00
6	3616 06 00
8	3616 08 00
10	3616 10 00
12	3616 12 00
14	3616 14 00

3618 Single Banjo, BSPP & M5

ØD	C	Order code
4	M5 x 0.8	3618 04 19
4	G1/8	3618 04 10
6	M5 x 0.8	3618 06 19
6	G1/8	3618 06 10
6	G1/4	3618 06 13
8	G1/8	3618 08 10
8	G1/4	3618 08 13
10	G3/8	3618 10 17

3636 Female Bulkhead Connector, BSPP

ØD	C	Order code
4	G1/8	3636 04 10
6	G1/8	3636 06 10
6	G1/4	3636 06 13
8	G1/8	3636 08 10
8	G1/4	3636 08 13
10	G3/8	3636 10 17
12	G3/8	3636 12 17
12	G1/2	3636 12 21

3602 Equal Elbow

ØD	Order code
4	3602 04 00
6	3602 06 00
8	3602 08 00
10	3602 10 00
12	3602 12 00
14	3602 14 00

3639 Equal Bulkhead Elbow

ØD	Order code
4	3639 04 00
6	3639 06 00
8	3639 08 00
10	3639 10 00
12	3639 12 00
14	3639 14 00

3604 Equal Tee

ØD	Order code
4	3604 04 00
6	3604 06 00
8	3604 08 00
10	3604 10 00
12	3604 12 00
14	3604 14 00

LF3600: Chemical Nickel-Plated Brass Instant Fittings

-20°C to +150°C
30 bar max.

3666 Plug-In Reducer

	ØD1 ØD2		Order code
	ØD1	ØD2	Order code
	4	6	3666 04 06
	4	8	3666 04 08
	6	8	3666 06 08
	6	10	3666 06 10
	6	12	3666 06 12
	8	10	3666 08 10
	8	12	3666 08 12
	8	14	3666 08 14
	10	12	3666 10 12
	10	14	3666 10 14
	12	14	3666 12 14

3668 Plug-In Increaser

	ØD1 ØD2		Order code
	ØD1	ØD2	Order code
	6	4	3668 06 04

3626 Blanking Plug

	ØD	Order code
	ØD	Order code
	4	3626 04 00
	6	3626 06 00
	8	3626 08 00
	10	3626 10 00
	12	3626 12 00
	14	3626 14 00

Pneumatic Accessories in Nickel-Plated Brass

-10°C to +80°C
60 bar max.

0900 Straight Male, Unequal Adaptor, BSPT

	C1	C2	Order code
	R1/8	R1/8	0900 00 10
	R1/4	R1/4	0900 00 13
	R3/8	R3/8	0900 00 17
	R1/2	R1/2	0900 00 21
	R3/4	R3/4	0900 00 27
	R1"	R1"	0900 00 34
	R1/8	R1/4	0900 10 13
	R1/8	R3/8	0900 10 17
	R1/4	R3/8	0900 13 17
	R1/4	R1/2	0900 13 21
	R3/8	R1/2	0900 17 21
	R1/2	R3/4	0900 21 27
	R3/4	R1"	0900 27 34

0905 Reducer Male to Female BSPP & M5

	C1	C2	Order code
	G1/8	M5 x 0.8	0905 19 10
	G1/4	G1/8	0905 10 13
	G3/8	G1/8	0905 10 17
	G3/8	G1/4	0905 13 17
	G1/2	G1/4	0905 13 21
	G1/2	G3/8	0905 17 21
	G3/4	G3/8	0905 17 27
	G3/4	G1/2	0905 21 27

0901 Equal/Unequal Adaptor, BSPP & M5

	C1	C2	Order code
	M5 x 0.8	M5 x 0.8	0901 00 19
	M5 x 0.8	G1/8	0901 19 10

0906 Increaser Male to Female BSPP & M5

	C1	C2	Order code
	M5 x 0.8	G1/8	0906 10 19
	G1/8	G1/4	0906 10 13
	G1/8	G3/8	0906 10 17
	G1/4	G3/8	0906 13 17
	G1/4	G1/2	0906 13 21
	G3/8	G1/2	0906 17 21

0902 Straight Female, Equal/Unequal Adaptor, BSPP & M5

	C1	C2	Order code
	M5 x 0.8	G1/8	0902 19 10
	M5 x 0.8	M5 x 0.8	0902 00 19
	G1/8	G1/8	0902 00 10
	G1/4	G1/4	0902 00 13
	G3/8	G3/8	0902 00 17
	G1/2	G1/2	0902 00 21
	G3/4	G3/4	0902 00 27
	G1/8	G1/4	0902 10 13
	G1/4	G3/8	0902 13 17

0907 Female Extended Adaptor Male/Female BSPP

	C	Order code
	G1/8	0907 00 10
	G1/4	0907 00 13

0904 Reducer Male BSPT to Female BSPP

	C1	C2	Order code
	R1/4	G1/8	0904 10 13
	R3/8	G1/8	0904 10 17
	R3/8	G1/4	0904 13 17
	R1/2	G1/4	0904 13 21
	R1/2	G3/8	0904 17 21
	R3/4	G3/8	0904 17 27
	R3/4	G1/2	0904 21 27

0912 Equal Female Stud Elbow, BSPP & M5

	C	Order code
	M5 x 0.8	0912 00 19
	G1/8	0912 00 10
	G1/4	0912 00 13
	G3/8	0912 00 17
	G1/2	0912 00 21
	G3/4	0912 00 27

0913 Equal Female Stud Elbow BSPP, Male BSPT

	C1	C2	Order code
	G1/8	R1/8	0913 00 10
	G1/4	R1/4	0913 00 13
	G3/8	R3/8	0913 00 17
	G1/2	R1/2	0913 00 21
	G3/4	R3/4	0913 00 27

Pneumatic Accessories in Nickel-Plated Brass

-10°C to +80°C
60 bar max.*

0914 Equal Male Stud Elbow, BSPT



C	Order code
R1/8	0914 00 10
R1/4	0914 00 13
R3/8	0914 00 17
R1/2	0914 00 21
R3/4	0914 00 27

0915 Equal Female Tee, BSPP & M5



C	Order code
M5 x 0.8	0915 00 19
G1/8	0915 00 10
G1/4	0915 00 13
G3/8	0915 00 17
G1/2	0915 00 21
G3/4	0915 00 27

0916 Male Stud Branch Tee, Female BSPP & Male BSPT



C1	C2	Order code
G1/8	R1/8	0916 00 10
G1/4	R1/4	0916 00 13
G3/8	R3/8	0916 00 17
G1/2	R1/2	0916 00 21
G3/4	R3/4	0916 00 27

0908 Equal Female Cross, BSPP



C	Order code
G1/8	0908 00 10
G1/4	0908 00 13
G3/8	0908 00 17
G1/2	0908 00 21

0909 Equal Cross, Female BSPP, Male BSPT



C1	C2	Order code
G1/8	R1/8	0909 00 10
G1/4	R1/4	0909 00 13
G3/8	R3/8	0909 00 17
G1/2	R1/2	0909 00 21

0920 Female Bulkhead Connector - BSPP & M5



C1	C2	Order code
M5 x 0.8	M10 x 1	0920 00 19
G1/8	M16 x 1.5	0920 00 10
G1/4	M20 x 1.5	0920 00 13
G3/8	M26 x 1.5	0920 00 17
G1/2	M28 x 1.5	0920 00 21

0931 Tailpiece Adaptor for Rubber Hose, Male BSPP



ØD	C	Order code
6	G1/8	0931 06 10
6	G1/4	0931 06 13
7	G1/8	0931 07 10
7	G1/4	0931 07 13
7	G3/8	0931 07 17
8	G1/8	0931 08 10
8	G1/4	0931 08 13
8	G3/8	0931 08 17
10	G1/4	0931 10 13
10	G3/8	0931 10 17
10	G1/2	0931 10 21
15	G3/8	0931 15 17
15	G1/2	0931 15 21
18	G1/2	0931 18 21

0919 Internal Hexagon Head Plug, BSPP & M5



C	Order code
M5 x 0.8	0919 00 19
G1/8	0919 00 10
G1/4	0919 00 13
G3/8	0919 00 17
G1/2	0919 00 21
G3/4	0919 00 27
G1"	0919 00 34

0220 Brass Hexagon Headed Plug, BSPP & M5



C	Order code
M5 x 0.8	0220 19 00
G1/8	0220 10 00
G1/4	0220 13 00
G3/8	0220 17 00
G1/2	0220 21 00

0138 Sealing Copper Washers



ØD	C	Order code
10	G1/8	0138 10 00
13	G1/4	0138 13 00
17	G3/8	0138 17 00
21	G1/2	0138 21 00
27	G3/4	0138 27 00
33	G1"	0138 33 00

*Technical specifications of nickel-plated brass accessories

PDE2600PNUK

Parker One Pneumatic**Legris****Pneumatic Accessories**

Technical specifications of aluminium anodised manifolds

-10°C to +80°C
20 bar max.

0605 Fluoropolymer Tape

Order code

0605 12 12

-250° to +260°C

3311 Female Manifold BSPP & M5

C1	C2	Number of Outlets	Order code
G1/8	M5 x 0.8	7	3311 19 10 07
G1/4	G1/8	2	3311 10 13 02
G1/4	G1/8	3	3311 10 13 03
G1/4	G1/8	4	3311 10 13 04
G1/4	G1/8	5	3311 10 13 05
G1/4	G1/8	6	3311 10 13 06
G3/8	G1/4	2	3311 13 17 02
G3/8	G1/4	3	3311 13 17 03
G3/8	G1/4	4	3311 13 17 04
G3/8	G1/4	5	3311 13 17 05
G3/8	G1/4	6	3311 13 17 06

3313 Double Female Manifold BSPP

C1	C2	Number of Outlets	Order code
G1/4	G1/8	2	3313101302
G1/4	G1/8	3	3313101303
G1/4	G1/8	4	3313101304
G1/4	G1/8	5	3313101305
G3/8	G1/4	2	3313131702
G3/8	G1/4	3	3313131703
G3/8	G1/4	4	3313131704
G3/8	G1/4	5	3313131705
G1/2	G1/4	3	3313132103
G1/2	G1/4	4	3313132104
G1/2	G1/4	5	3313132105

3312 Female Cross Manifold BSPP & M5

C	Order code
M5 x 0.8	3312 00 19
G1/8	3312 00 10
G1/4	3312 00 13
G3/8	3312 00 17
G1/2	3312 00 21

Stainless Steel Instant Fittings

3805 Male Stud, BSPT



ØD	C	Order code
4	M5 x 0.8	3805 04 19
4	R1/8	3805 04 10
4	R1/4	3805 04 13
6	R1/8	3805 06 10
6	R1/4	3805 06 13
8	R1/8	3805 08 10
8	R1/4	3805 08 13
8	R3/8	3805 08 17
10	R1/4	3805 10 13
10	R3/8	3805 10 17
12	R1/4	3805 12 13
12	R3/8	3805 12 17
12	R1/2	3805 12 21

3801 Male Stud, BSPP



ØD	C	Order code
4	M5 x 0.8	3801 04 19
4	G1/8	3801 04 10
6	M5 x 0.8	3801 06 19
6	G1/8	3801 06 10
6	G1/4	3801 06 13
8	G1/8	3801 08 10
8	G1/4	3801 08 13
8	G3/8	3801 08 17
10	G1/4	3801 10 13
10	G3/8	3801 10 17
12	G1/4	3801 12 13
14	G3/8	3801 12 17

3879 Male Stud Elbow, BSPP



20 bar max.

ØD	C	Order code
4	G1/8	3879 04 10
4	G1/4	3879 04 13
6	G1/8	3879 06 10
6	G1/4	3879 06 13
8	G1/8	3879 08 10
8	G1/4	3879 08 13
8	G3/8	3879 08 17
10	G1/4	3879 10 13
10	G3/8	3879 10 17
12	G1/4	3879 12 13
12	G3/8	3879 12 17
12	G1/2	3879 12 21

3816 Equal Bulkhead Union



IP51

ØD	Order code
4	3816 04 00
6	3816 06 00
8	3816 08 00
10	3816 10 00
12	3816 12 00

3889 Male Stud Elbow, BSPT



20 bar max.

ØD	C	Order code
4	R1/8	3889 04 10
4	R1/4	3889 04 13
6	R1/8	3889 06 10
6	R1/4	3889 06 13
8	R1/8	3889 08 10
8	R1/4	3889 08 13
8	R3/8	3889 08 17
10	R1/4	3889 10 13
10	R3/8	3889 10 17
12	R1/4	3889 12 13
12	R3/8	3889 12 17
12	R1/2	3889 12 21

3802 Equal Elbow



ØD	Order code
4	3802 04 00
6	3802 06 00
8	3802 08 00
10	3802 10 00
12	3802 12 00

3804 Equal Tee



ØD	Order code
4	3804 04 00
6	3804 06 00
8	3804 08 00
10	3804 10 00
12	3804 12 00

3806 Equal Straight Union



ØD	Order code
4	3806 04 00
6	3806 06 00
8	3806 08 00
10	3806 10 00
12	3806 12 00

3866 Plug-In Reducer



ØD2

ØD1	ØD2	Order code
4	6	3866 04 06
4	8	3866 04 08
6	8	3866 06 08
6	10	3866 06 10
8	10	3866 08 10
8	12	3866 08 12
10	12	3866 10 12

Stainless Steel Function Fittings

7810 Flow Regulator, threaded, BSPP - exhaust (A)



0° to +70°C
1 to 10 bar

C1	Order code
M5 x 0.8	7810 19 19
G1/8	7810 10 10
G1/4	7810 13 13
G3/8	7810 17 17
G1/2	7810 21 21

7899 Quick Exhaust Valve, Double Female, BSPP



-10° to +120°C (1/8, 1/4)
-20° to +80°C (3/8, 1")
2 to 10 bar

C		Order code
G1/8	7	7899 00 10
G1/4	7	7899 00 13
G3/8	9	7899 00 17
G1/2	12	7899 00 21
G3/4	18	7899 00 27
G1"	18	7899 00 34

7812 Flow Regulator, threaded, BSPP - bi-directional (C)



0° to +70°C
1 to 10 bar

C1	Order code
M5 x 0.8	7812 19 19
G1/8	7812 10 10
G1/4	7812 13 13
G3/8	7812 17 17
G1/2	7812 21 21

0682 Threaded Silencer, Male BSPP



-20° to +180°C
12 bar max.

C	Order code
G1/8	0682 00 10
G1/4	0682 00 13
G3/8	0682 00 17
G1/2	0682 00 21
G3/4	0682 00 27

7820 Flow Regulator, In-line, threaded connections BSPP, one way adjust (A)



-15° to +120°C
1 to 16 bar

C		Order code
G1/8	7	7820 00 10
G1/4	7	7820 00 13
G3/8	9	7820 00 17
G1/2	12	7820 00 21

7822 Flow Regulator, In-line, threaded connections BSPP, bi-directional (C)



-15° to +120°C
1 to 40 bar

C		Order code
G1/8	7	7822 00 10
G1/4	7	7822 00 13
G3/8	9	7822 00 17
G1/2	12	7822 00 21

4890 Non-return valve, Female-Female, BSPP



-20° to +180°C
0,5 to 40 bar

C		Order code
G1/8	10	4890 10 10
G1/4	10	4890 13 13
G3/8	15	4890 17 17
G1/2	15	4890 21 21
G3/4	20	4890 27 27
G1"	25	4890 34 34

Stainless Steel Accessories

-20°C to +180°C
150 bar max.

1843 Equal Elbow, Female BSPP



C	Order code
G1/8	1843 10 10
G1/4	1843 13 13
G3/8	1843 17 17
G1/2	1843 21 21

1864 Male NPT to Female BSPP Adaptor



C1	C2	Order code
1/8	G1/8	1864 11 10
1/4	G1/4	1864 14 13
3/8	G3/8	1864 18 17
1/2	G1/2	1864 22 21

1844 Equal Male Stud Elbow, BSPP



C1	C2	Order code
G1/8	R1/8	1844 10 10
G1/4	R1/4	1844 13 13
G3/8	R3/8	1844 17 17
G1/2	R1/2	1844 21 21

1867 Male BSPT to Female NPT Adaptor



C1	C2	Order code
R1/8	1/8	1867 10 11
R1/4	1/4	1867 13 14
R3/8	3/8	1867 17 18
R1/2	1/2	1867 21 22

1845 Equal Tee, Triple Female, BSPP



C	Order code
G1/8	1845 10 10
G1/4	1845 13 13
G3/8	1845 17 17
G1/2	1845 21 21

1863 Reducer BSPT to Female BSPP



C1	C2	Order code
R1/4	G1/8	1863 13 10
R3/8	G1/8	1863 17 10
R3/8	G1/4	1863 17 13
R1/2	1/4	1863 21 13
R1/2	3/8	1863 21 17

1855 Double Female Sleeve, BSPP



C	Order code
G1/8	1855 10 10
G1/4	1855 13 13
G3/8	1855 17 17
G1/2	1855 21 21

1823 Tailpiece Adaptor for Rubber Hose, Male BSPT



ØD	C	Order code
7	R1/8	1823 07 10
7	R1/4	1823 07 13
10	R1/4	1823 10 13
10	R3/8	1823 10 17
13	R3/8	1823 13 17
16	R1/2	1823 16 21

1817 Bulkhead Adaptor, BSPP



C	Order code
G1/8	1817 00 10
G1/4	1817 00 13
G3/8	1817 00 17
G1/2	1817 00 21

0285 Plug, Internal Hexagon Headed, BSPT



C	Order code
R1/8	0285 10 00
R1/4	0285 13 00
R3/8	0285 17 00
R1/2	0285 21 00
R3/4	0285 27 00

Pneumatic Tubing

-20°C to +80°C
35 bar max.

1025P Semi-Rigid Nylon Tubing, 25 m Rolls



o.d. tubing mm	i.d. tubing mm	R minimum bend radius for tube at ambient temp. in mm	Order code
4	2.7	30	1025P04 00 27
4	2.7	30	1025P04 01 27
4	2.7	30	1025P04 02 27
4	2.7	30	1025P04 03 27
4	2.7	30	1025P04 04 27
4	2.7	30	1025P04 05 27
4	2.7	30	1025P04 06 27
6	4	35	1025P06 00
6	4	35	1025P06 01
6	4	35	1025P06 02
6	4	35	1025P06 03
6	4	35	1025P06 04
6	4	35	1025P06 05
6	4	35	1025P06 06
8	6	55	1025P08 00
8	6	55	1025P08 01
8	6	55	1025P08 02
8	6	55	1025P08 03
8	6	55	1025P08 04
8	6	55	1025P08 05
8	6	55	1025P08 06
10	7.5	75	1025P10 00 75
10	7.5	75	1025P10 01 75
10	7.5	75	1025P10 04 75
12	9	75	1025P12 00 09
12	9	75	1025P12 01 09
12	9	75	1025P12 04 09
14	11	100	1025P14 00 11
14	11	100	1025P14 01 11
14	11	100	1025P14 04 11

2005P-2010P Semi-rigid Nylon,
500m & 1000m Reels

o.d. tubing mm	i.d. tubing mm	R minimum bend radius for tube at ambient temp. in mm	Order code
4	2.7	30	2010P04 00 27
4	2.7	30	2010P04 01 27
4	2.7	30	2010P04 04 27
6	4	35	2010P06 00
6	4	35	2010P06 01
6	4	35	2010P06 04
8	6	55	2005P08 00
8	6	55	2005P08 01
8	6	55	2005P08 04
10	8	90	2005P10 00
10	8	90	2005P10 01
10	8	90	2005P10 04

1010P Multitube Semi-Rigid Nylon



o.d. PVC sheath mm	o.d. xi.d. semi rigid nylon	R minimum bend radius at 20°C mm	Number of tubes	Order code
13.5	4 x 2.7	35	4	1010P04 00M04
16	4 x 2.7	45	7	1010P04 00M07
18.5	6 x 4	55	4	1010P06 00M04
22	6 x 4	60	7	1010P06 00M07
19.2	8 x 6	45	2	1010P08 00M2

1100P Semi-Rigid Nylon Tubing, 100 m Rolls



o.d. tubing mm	i.d. tubing mm	R minimum bend radius for tube at ambient temp. in mm	Order code
4	2.7	30	1100P04 00 27
4	2.7	30	1100P04 01 27
4	2.7	30	1100P04 02 27
4	2.7	30	1100P04 03 27
4	2.7	30	1100P04 04 27
4	2.7	30	1100P04 05 27
4	2.7	30	1100P04 06 27
6	4	35	1100P06 00
6	4	35	1100P06 01
6	4	35	1100P06 02
6	4	35	1100P06 03
6	4	35	1100P06 04
6	4	35	1100P06 05
6	4	35	1100P06 06
8	6	55	1100P08 00
8	6	55	1100P08 01
8	6	55	1100P08 02
8	6	55	1100P08 03
8	6	55	1100P08 04
8	6	55	1100P08 05
8	6	55	1100P08 06
10	7.5	75	1100P10 00 75
10	7.5	75	1100P10 01 75
10	7.5	75	1100P10 04 75
12	9	75	1100P12 00 09
12	9	75	1100P12 01 09
12	9	75	1100P12 04 09
14	12	100	1100P14 00
14	12	100	1100P14 01
14	12	100	1100P14 04

Pneumatic Tubing

-20°C to +70°C
9 bar max.

1025U Flexible Polyurethane Tubing, 25 m Rolls



o.d. tubing mm	i.d. tubing mm	Minimum bend radius for tube at ambient temp. in mm		Order code
		Polyester	Polyether	
4	2.5	10		1025U04 01
4	2.5	10		1025U04 02
4	2.5	10		1025U04 03
4	2.5	10		1025U04 04
4	2.5	10		1025U04 05
4	2.5	10		1025U04 06
4	2.5		10	1025U04R08
6	4	15		1025U06 01
6	4	15		1025U06 02
6	4	15		1025U06 03
6	4	15		1025U06 04
6	4	15		1025U06 05
6	4	15		1025U06 06
6	4		20	1025U06R08
8	5.5	20		1025U08 01
8	5.5	20		1025U08 02
8	5.5	20		1025U08 03
8	5.5	20		1025U08 04
8	5.5	20		1025U08 05
8	5.5	20		1025U08 06
8	5.5		25	1025U08 R08
10	7	25		1025U10 01
10	7	25		1025U10 04
10	7		35	1025U10 R08
12	8	35		1025U12 01
12	8	35		1025U12 04
12	8		40	1025U12R08
14	9.5	45		1025U14 01 95
14	9.5	45		1025U14 04 95
14	9.5		50	1025U14R08 95

1100U Flexible Polyurethane Tubing, 100m Rolls



o.d. tubing mm	i.d. tubing mm	Minimum bend radius for tube at ambient temp. in mm		Order code
		Polyester	Polyether	
4	2.5	10		1100U04 01
4	2.5	10		1100U04 02
4	2.5	10		1100U04 03
4	2.5	10		1100U04 04
4	2.5	10		1100U04 05
4	2.5	10		1100U04 06
4	2.5		10	1100U04R08
6	4	15		1100U06 01
6	4	15		1100U06 02
6	4	15		1100U06 03
6	4	15		1100U06 04
6	4	15		1100U06 05
6	4	15		1100U06 06
6	4		20	1100U06R08
8	5.5	20		1100U08 01
8	5.5	20		1100U08 02
8	5.5	20		1100U08 03
8	5.5	20		1100U08 04
8	5.5	20		1100U08 05
8	5.5	20		1100U08 06
8	5.5		25	1100U08R08
10	7	25		1100U10 01
10	7	25		1100U10 04
10	7		35	1100U10R08
12	8	35		1100U12 01
12	8	35		1100U12 04
12	8		40	1100U12R08
14	9.5	45		1100U14 01 95
14	9.5	45		1100U14 04 95
14	9.5		50	1100U14R08 95

2003U-2005U-2010U Polyurethane Tubing,
300m, 500m & 1000m Reels

o.d. tubing mm	i.d. tubing mm	Minimum bend radius for tube at ambient temp. in mm		Order code
		Polyester	Polyether	
4	2.7	30		2010U04 01
4	2.7	30		2010U04 04
6	4	35		2010U06 01
6	4	35		2010U06 04
8	6		55	2005U08R08
8	6	55		2005U08 01
8	6	55		2005U08 04
10	8		90	2005U10R08
10	8	90		2005U10 01
10	8	90		2005U10 04

1100U Anti-Static Polyurethane Tubing



Resistivity: 10^3 to $10^6 \Omega$

o.d. tubing mm	i.d. tubing mm	R minimum bend radius for tube at 20°C in mm	Order code
4	2.5	10	1100U04A01
6	4	15	1100U06A01
8	5.5	25	1100U08A01
10	7	35	1100U10A01
12	8	45	1100U12A01

Pneumatic Tubing

-20°C to +70°C
9 bar max.

1420U Flexible Polyurethane Twin Tubing

	o.d. tubing mm	i.d. tubing mm	R minimum bend radius for tube at 20°C in mm	Order code
	4	2.5	10	1420U04 11
	4	2.5	10	1420U04 44
	4	2.5	10	1420U04 41
	6	4	15	1420U06 11
	6	4	15	1420U06 44
	6	4	15	1420U06 41
	8	5.5	20	1420U08 11
	8	5.5	20	1420U08 44
	8	5.5	20	1420U08 41

1460U Polyurethane Recoil Tubing,
without connectors, 2 m long

	o.d. tubing mm	i.d. tubing mm	Order code
	8	5	1460U08 04
	10	7	1460U10 04
	12	8	1460U12 04

1461U Polyurethane Recoil Tubing,
without connectors, 4 m long

	o.d. tubing mm	i.d. tubing mm	Order code
	8	5	1461U08 04
	10	7	1461U10 04
	12	8	1461U12 04

1462U Polyurethane Recoil Tubing,
without connectors, 6 m long

	o.d. tubing mm	i.d. tubing mm	Order code
	8	5	1462U08 04
	10	7	1462U10 04
	12	8	1462U12 04

0694 Instant Fitting, with protection spring,
BSPP

	ØD	C	Order code
	8	G1/4	0694 08 13
	10	G1/4	0694 10 13
	12	G3/8	0694 12 17

1025U Anti-Spark Single Layer Polyurethane
Tubing, 25 m Rolls

	o.d. tubing mm	i.d. tubing mm	R minimum bend radius for tube at 20°C in mm	Order code
	4	2.5	10	1025U04K01
	6	4	15	1025U06K01
	8	5.5	20	1025U08K01
	10	7	25	1025U10K01
	12	8	35	1025U12K01

1470U Polyurethane Recoil Tubing, 2 m
long, with Threaded Stem BSPT Thread

	o.d. tubing mm	i.d. tubing mm	BSPT thread	Order code
	8	5	R1/4	1470U08 03 13
	8	5	R1/4	1470U08 04 13
	8	5	R1/4	1470U08 05 13

1471U Polyurethane Recoil Tubing, 4 m
long, with Threaded Stem BSPT Thread

	o.d. tubing mm	i.d. tubing mm	BSPT thread	Order code
	8	5	R1/4	1471U08 03 13
	8	5	R1/4	1471U08 04 13
	8	5	R1/4	1471U08 05 13

1472U Polyurethane Recoil Tubing, 6 m
long, with Threaded Stem BSPT Thread

	o.d. tubing mm	i.d. tubing mm	BSPT thread	Order code
	8	5	R1/4	1472U08 03 13
	8	5	R1/4	1472U08 04 13
	8	5	R1/4	1472U08 05 13

1025V Braided PVC Hose, 25 m Rolls

	o.d. tubing mm	i.d. tubing mm	R minimum bend radius for tube at 20°C in mm	Order code
0° to +70°C 15 bar	8	4	10	1025V08 00 04
	11	6	12	1025V11 00 06
	13	7	14	1025V13 00 07
	14	8	16	1025V14 00 08
	16	10	25	1025V16 00 10
	18	12	30	1025V18 00 12
	23	15	40	1025V23 00 15
	26	19	60	1025V26 00 19

Pneumatic Tubing

1005T Fluoropolymer FEP 140 Tubing, 5m Rolls



-40°C to +150°C
37 bars max.

o.d. tubing mm	i.d. tubing mm	R minimum bend radius for tube at ambient temp. in mm	Order code
4	2.5	40	1005T04 00 25
6	4	50	1005T06 00
8	6	70	1005T08 00
10	8	120	1005T10 00
12	10	180	1005T12 00

1025T Fluoropolymer FEP 140 Tubing, 25m Rolls



-40°C to +150°C
37 bar max.

o.d. tubing mm	i.d. tubing mm	R minimum bend radius for tube at ambient temp. in mm	Order code
4	2.5	40	1025T04 00 25
6	4	50	1025T06 00
8	6	70	1025T08 00
10	8	120	1025T10 00
12	10	180	1025T12 00

1040H Self-Fastening Hose, in 40m rolls



-20°C to +100°C
16 bar max.

DN	i.d. tubing mm	R minimum bend radius at 20°C (mm)	Order code
6	6.3	60	1040H56 02
6	6.3	60	1040H56 03
8	9.5	70	1040H60 02
8	9.5	70	1040H60 03
12	12.7	120	1040H62 02
12	12.7	120	1040H62 03
16	15.9	140	1040H66 02
16	15.9	140	1040H66 03
20	19.1	170	1040H69 02
20	19.1	170	1040H69 03

1080H Self-Fastening Hose, in 80m rolls



-20°C to +100°C
16 bars max.

DN	i.d. tubing mm	R minimum bend radius at 20°C (mm)	Order code
16	15.9	140	1080H66 02
16	15.9	140	1080H66 03
20	19.1	170	1080H69 02
20	19.1	170	1080H69 03

1100H Self-Fastening Hose, in 100m rolls



-20°C to +100°C
16 bar max.

DN	i.d. tubing mm	R minimum bend radius at 20°C (mm)	Order code
6	6.3	60	1100H56 02
6	6.3	60	1100H56 03
8	9.5	70	1100H60 02
8	9.5	70	1100H60 03
12	12.7	120	1100H62 02
12	12.7	120	1100H62 03

3000 Tube Cutter



Order code

3000 71 00

3000 71 11 Tube Cutter



Order code

3000 71 11

Clip Strips for Tubes



ØD	Order code
4	CLIP 04 00
6	CLIP 06 00
8	CLIP 08 00
10	CLIP 10 00
12	CLIP 12 00
14	CLIP 14 00

Safety Couplers & Probes

Passage 5,5mm - ISO B6 profile

-20°C to +60°C
16 bar max.
ISO 4414

9405U Male Body, BSPT



C	Order code
R1/4	9405U06 13
R3/4	9405U06 17
R1/2	9405U06 21

9087U Male Thread, BSPP



C	Order code
G1/4	9087U06 13
G1/8	9087U06 17
G1/2	9087U06 21

9414U Female Body, BSPP



C	Order code
G1/4	9414U06 13
G3/8	9414U06 17
G1/2	9414U06 21

9086 Female Thread, BSPP



C	Order code
G1/4	9086 23 13
G3/8	9086 23 17
G1/2	9086 23 21

9421U with Hosetail



ØD	Order code
6	9421U06 06
8	9421U06 08
10	9421U06 10

9094U with Hosetail



ØD	Order code
6	9094U06 06
8	9094U06 08
10	9094U06 10

9416U Female Body, Panel Mountable, BSPP



C	Order code
G1/4	9416U06 13

9080U with LF3000 Outlet & Protection Spring



ØD	Order code
8	9080U06 08
10	9080U06 10

9410U with LF3000 Outlet & Protection Spring



ØD	Order code
8	9410U06 08
10	9410U06 10

9440U Female Y Body, BSPP



C	Order code
G3/8	9440U06 17

Safety Couplers & Probes

Passage 8mm - ISO B8 profile

-20°C to +60°C
16 bar max.
ISO 4414

9405U Male Body, BSPT

	C	Order code
	G1/4	9405U08 13
	G3/4	9405U08 17
	G1/2	9405U08 21

9087U Male Thread, BSPP

	C	Order code
	G1/4	9087U08 13
	G3/8	9087U08 17
	G1/2	9087U08 21

9414U Female Body, BSPP

	C	Order code
	G1/4	9414U08 13
	G3/4	9414U08 17
	G1/2	9414U08 21

9086 Female Thread, BSPP

	C	Order code
	G1/4	9086 30 13
	G3/8	9086 30 17
	G1/2	9086 30 21

9421U with Hosetail

	ØD	Order code
	8	9421U08 08
	10	9421U08 10
	13	9421U08 13

9094U with Hosetail

	ØD	Order code
	8	9094U08 08
	10	9094U08 10
	13	9094U08 13

9416U Female Body, Panel Mountable, BSPP

	C	Order code
	G3/8	9416U08 17

9080U with LF3000 Outlet & Protection Spring

	ØD	Order code
	10	9080U08 10
	12	9080U08 12

9410U with LF3000 Outlet & Protection Spring

	ØD	Order code
	10	9410U08 10
	12	9410U08 12

9440U Female Y Body, BSPP

	C	Order code
	G1/2	9440U08 21

Safety Couplers & Probes

Passage 7,2mm - EURO Interchange

-20°C to +60°C
16 bar max.
ISO 4414

9401E Male Body, BSPP



C	Order code
G1/4	9401E07 13
G3/8	9401E07 17
G1/2	9401E07 21

9087E Male Thread, BSPP



C	Order code
G1/4	9087E07 13
G3/8	9087E07 17
G1/2	9087E07 21

9414E Female Body, BSPP



C	Order code
G1/4	9414E07 13
G3/8	9414E07 17
G1/2	9414E07 21

9086 Female Thread, BSPP



C	Order code
G1/4	9086 25 13
G3/8	9086 25 17
G1/2	9086 25 21

9421E with Hosetail



ØD	Order code
8	9421E07 08
10	9421E07 10
13	9421E07 13

9094E with Hosetail



ØD	Order code
8	9094E07 08
10	9094E07 10
13	9094E07 13

9416E Female Body, Panel Mountable, BSPP



C	Order code
G3/8	9416E07 17

9080E with LF3000 Outlet & Protection Spring



ØD	Order code
10	9080E07 10
12	9080E07 12

9410E with LF3000 Outlet & Protection Spring



ØD	Order code
10	9410E07 10
12	9410E07 12

9440E Female Y Body, BSPP



C	Order code
G1/2	9440E07 21

Safety Couplers & Probes

Passage 5,5mm - ARO Interchange

-20°C to +60°C
16 bar max.
ISO 4414

9401A Male Body, BSPP



C	Order code
G1/4	9401A06 13
G3/8	9401A06 17
G1/2	9401A06 21

9087A Male Thread, BSPP



C	Order code
G1/4	9087A06 13
G3/8	9087A06 17
G1/2	9087A06 21

9414A Female Body, BSPP



C	Order code
G1/4	9414A06 13
G3/8	9414A06 17
G1/2	9414A06 21

9086 Female Thread, BSPP



C	Order code
G1/4	9086 22 13
G3/8	9086 22 17
G1/2	9086 22 21

9421A with Hosetail



ØD	Order code
6	9421A06 06
8	9421A06 08
10	9421A06 10

9094A with Hosetail



ØD	Order code
6	9094A06 06
8	9094A06 08
10	9094A06 10

9416A Female Body, Panel Mountable, BSPP



C	Order code
G1/4	9416A 06 13

9080A with LF3000 Outlet & Protection Spring



ØD	Order code
8	9080A06 08
10	9080A06 10

9410A with LF3000 Outlet & Protection Spring



ØD	Order code
8	9410A06 08
10	9410A06 10

9440A Female Y Body, BSPP



C	Order code
G3/8	9440A06 17

Blow Gun Nozzles

-15°C to +50°C
10 bar max.
OSHA & CE

0659 Standard Blowgun, with angled nozzle, BSPP



C	Order code
G1/4	0659 00 13

0656 Progressive Control, lower connection, BSPP



C	Order code
G1/4	0656 66 13

0652 Progressive Control, lower connection, BSPP



C	Order code
G1/4	0652 66 13

0654 Safety Blowgun, with angled nozzle, BSPP



C	Order code
G1/4	0654 00 13

0657 Progressive Control, upper connection, BSPP



C	Order code
G1/4	0657 66 13

0655 Progressive Control, upper connection, BSPP



C	Order code
G1/4	0655 66 13

0690 Standard Nozzle



ØD	C	Order code
2.5	M12 x 1,25	0690 01 00

0690 Long Straight Tube Nozzle



ØD	C	Order code
2.5	M12 x 1,25	0690 03 00

0690 Air Screen Nozzle



ØD	C	Order code
2	M12 x 1,25	0690 09 00

0623 Lever Operated Air Gun with Removable Nozzle



ØD	C	Order code
2	G1/4	0623 10 35

0690 Long-Angled Tube Nozzle



ØD	C	Order code
2.5	M12 x 1,25	0690 05 00

0690 Coenda Effect Nozzle



C	Order code
M12 x 1,25	0690 08 00

0690 Booster Nozzle



ØD	C	Order code
2.5	M12 x 1,25	0690 10 00

Pneumatic Ball Valves & Action Valves

0402 Standard In-Line Ball Valve - Double Female, BSPP



-20° to +80°C
40 bar

C	DN	Order code
G1/8	4	0402 04 10
G1/8	7	0402 07 10
G1/4	7	0402 07 13
G3/4	10	0402 10 17
G1/2	13	0402 13 21
G3/4	20	0402 20 27
G1"	23	0402 23 34

0401 Standard In-Line Ball Valve, Male Female BSPP



-20° to +80°C
40 bar

ØD	C	Order code
4	G1/8	0401 04 10
7	G1/4	0401 07 13
10	G3/8	0401 10 17
13	G1/2	0401 13 21
18	G3/4	0401 18 27
23	G1"	0401 23 34

4902 In-Line Ball Valves, Fluoropolymer Series, BSPP



-20° to +130°C
30 bar

C	DN	PN	Order code
G1/4	10	30	4902 10 13
G3/8	10	30	4902 10 17
G1/2	15	30	4902 15 21
G3/4	20	30	4902 20 27
G2.1/2	25	30	4902 25 34
G2.1/2	32	25	4902 32 42
G2.1/2	40	25	4902 40 49
G2.1/2	50	25	4902 50 48
G2.1/2	65	25	4902 65 47
G3"	80	25	4902 80 46
G4"	100	25	4902 01 45

0492 Double Female



-20° to +80°C
12 bar

C	DN	Order code
G1/4	4	0492 04 13
G1/4	4	0492 04 13 64
G3/8	7	0492 07 17
G1/2	10	0492 10 21
G3/4	13	0492 13 27

0491 Male & Female, BSPP



-20° to +80°C
12 bar

C	DN	Order code
G1/4	4	0491 04 13
G1/4	4	0491 04 13 64
G3/8	7	0491 07 17
G1/2	10	0491 10 21
G3/4	13	0491 13 27

0439 Lockable Ball Valves, Double Female with vent, BSPP



-20° to +80°C
40 bar

ØD	C	Order code
4	G1/8	0439 04 10
7	G1/4	0439 07 13
10	G3/8	0439 10 17
13	G1/2	0439 13 21
18	G3/4	0439 18 27
23	G1"	0439 23 34

0448 Panel Mountable Female, BSPP, right angle porting



-20° to +80°C
40 bar

ØD	C	Order code
4	G1/8	0448 04 10
6	G1/4	0448 06 13
9	G3/8	0448 09 17
12	G1/2	0448 12 21

0438 Female, 3 port 2 way Lockable Ball Valve, BSPP



-20° to +80°C
40 bar

ØD	C	Order code
9	G3/8	0438 09 17
12	G1/2	0438 12 21
18	G3/4	0438 18 27
23	G1"	0438 23 34

0489 In-Line Vented Ball Valves, BSPP, with threaded exhaust



-20° to +80°C
40 bar

ØD	C	Order code
7	G1/4	0489 07 13
10	G3/8	0489 10 17
13	G1/2	0489 13 21
18	G3/4	0489 18 27
23	G1"	0489 23 34

0449 In-Line Vented Ball Valves, BSPP, panel mountable



-20° to +80°C
40 bar

ØD	C	Order code
7	G1/4	0449 07 13
10	G3/8	0449 10 17
13	G1/2	0449 13 21

Pneumatic Ball Valves & Action Valves

0469 Double Female Vented Ball Valves BSPP



-20° to +80°C
40 bar

ØD	C	Order code
4	G1/8	0469 04 10
7	G1/4	0469 07 13
10	G3/8	0469 10 17
13	G1/2	0469 13 21
18	G3/4	0469 18 27
23	G1"	0469 23 34

4298 Mini-Solenoid Valve, 1W/ 1,2VA



Voltage	Order code
24V ---	4298 01 01
24V ~	4298 01 02
110V ~	4298 02 01
220V ~	4298 02 02

4810 Ball Valve, Double Female BSPP



C	DN	PN	Order code
G1/4	8	64	4810 08 13
G3/8	10	64	4810 10 17
G1/2	15	64	4810 15 21
G3/4	20	40	4810 20 27
G1"	25	40	4810 25 34

4298 Namur Sub-Base for Solenoid Pilot Valve



C	Order code
M5 x 0.8	4298 00 01

4202 Axial Valve, normally closed, double female, BSPP, FKM Seal



-20° to +135°C
10 bar

C	DN	Order code
G3/8	10	4202 10 17 20
G1/2	15	4202 15 21 20
G3/4	20	4202 20 27 20
G1"	25	4202 25 34 20
G1"1/4	32	4202 32 42 20
G1"1/2	40	4202 40 49 20
G2"	50	4202 50 48 20

The Ball Valves, Universal Series, can be adapted to various applications in semi-standard versions.

4212 Axial Valve, normally open, double female, BSPP, FKM Seal



-20° to +135°C
8 bar

C	DN	Order code
G3/8	10	4212 10 17 20
G1/2	15	4212 15 21 20
G3/4	20	4212 20 27 20
G1"	25	4212 25 34 20
G1"1/4	32	4212 32 42 20
G1"1/2	40	4212 40 49 20
G2"	50	4212 50 48 20

4222 Axial Valve, double acting, double female, BSPP, FKM Seal



-20° to +135°C
10 bar

ØD	C	Order code
10	G3/8	4222 10 17 20
15	G1/2	4222 15 21 20
20	G3/4	4222 20 27 20
25	G1"	4222 25 34 20
32	G1.1/4"	4222 32 42 20
40	G1.1/2"	4222 40 49 20
50	G2"	4222 50 48 20

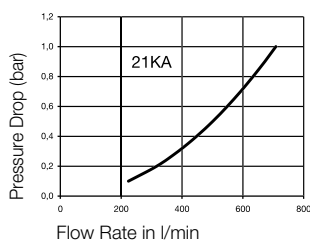
Rectus Series 21KA - DN 5.0

Mini industrial coupling, the world's most commonly used profile. Above average flow performance for liquid and gaseous media. Large band width in materials and valve variants.

Advantages

- Single handed operation
- Small dimensions
- All versions interchangeable

Chart / Air



Working Pressure

PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-20°C up to +100°C (NBR)
depending on the medium.

*At a temperature below -20°C and above +100°C special seals are available on request.

Material

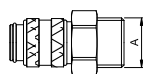
Coupling

Back Body	Brass
Valve Body	Brass
Sleeve	Aluminium, elox.
Valve	Brass
Spring and Locking Ring	AISI 301
Locking Balls	AISI 420
Seals	NBR

Plug

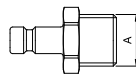
Brass

Coupling - Male Thread BSPP



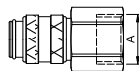
Thread A	Order code	Box Qty
1/8"	21KAAW10MPXS_99	20
1/4"	21KAAW13MPXS_99	20

Plug - Male Thread BSPP



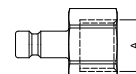
Thread A	Order code	Box Qty
1/8"	21SFAW10MXX	20
1/4"	21SFAW13MXX	20

Coupling - Female Thread BSPP



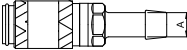
Thread A	Order code	Box Qty
1/8"	21KAIW10MPXS_99	20
1/4"	21KAIW13MPXS_99	20

Plug - Female Thread BSPP

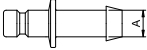


Thread A	Order code	Box Qty
1/8"	21SFIW10MXX	20

Coupling - Hose Barb

	Thread A	Order code	Box Qty
	6 mm	21KATF06MPXS_99	20
	8 mm	21KATF08MPXS_99	20

Plug - Hose Barb

	Thread A	Order code	Box Qty
	6 mm	21SFTF06MXX	20
	8 mm	21SFTF08MXX	20

Plug - Plastic Hose Connection

	Thread A	Order code	Box Qty
	4x6 mm	21SFKO06MXX	20
	6x8 mm	21SFKO08MXX	20

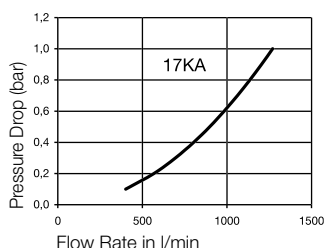
Rectus Series 17KA - DN 5.0

English profile industrial coupling. Specially suited to compressed air applications. Brass/steel design developed for industry. Schrader (DN 5.0) Interchange.

Advantages

- Single handed operation
- Small dimensions, light weight
- UltraFlo technology with high flow valve

Chart / Air



Working Pressure

PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-20°C up to +100°C (NBR)
depending on the medium.

*At a temperature below -20°C and above +100°C special seals are available on request.

Material

Coupling

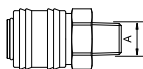
Back Body	Brass, Nickel Plated
Valve Body	Steel Hardened, Nickel Pl.
Sleeve	Steel Hardened, Nickel Pl.
Valve	Brass
Inner Sleeve	Brass
Spring Plate	Brass
Spring and Locking Ring	AISI 303
Locking Balls	AISI 420
Seals	NBR

Plug

Steel Hardened, Nickel Pl.

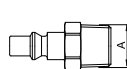
Coupling - Male Thread BSPT

Thread A	Order code	Box Qty
1/4"	17KAAK13SPNS_99	10
3/8"	17KAAK17SPNS_99	10
1/2"	17KAAK21SPNS_99	10



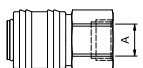
Plug - Male Thread BSPT

Thread A	Order code	Box Qty
1/8"	17SFAK10SXN	20
1/4"	17SFAK13SXN	20



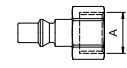
Coupling - Female Thread BSPP

Thread A	Order code	Box Qty
1/4"	17KAIW13SPNS_99	10
1/2"	17KAIW21SPNS_99	10

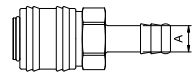


Plug - Female Thread BSPP

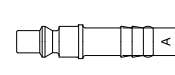
Thread A	Order code	Box Qty
1/8"	17SFIW10SXN	20
1/4"	17SFIW13SXN	20



Coupling - Hose Barb

	Thread	Order code	Box Qty
	A		
	8 mm	17KATF08SPNS_99	10
	10 mm	17KATF10SPNS_99	10

Plug - Hose Barb

	Thread	Order code	Box Qty
	A		
	8 mm	17SFTF08SXN	20
	10 mm	17SFTF10SXN	20

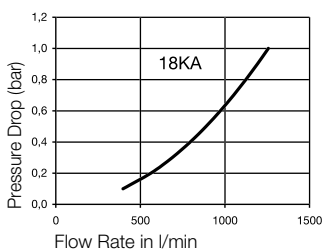
Rectus Series 18KA - DN 5.5

ISO 6150 C industrial coupling with UltraFlo technology. Robust design. The steel sleeve counters oscillating forces. System has limited use for liquids (steel sleeve/ zinc die cast valve).

Advantages

- Single handed operation
- Plug design optimised through greater insert depth
- Innovative valve technology with high flow valve

Chart / Air



Working Pressure

PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-20°C up to +100°C (NBR)
depending on the medium.

*At a temperature below -20°C and above +100°C special seals are available on request.

Material

Coupling

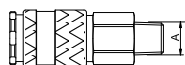
Back Body	Brass, Nickel Plated
Valve Body	Brass, Nickel Plated
Sleeve	Steel Hardened, Nickel Pl.
Valve	Zinc Diecasting, Nickel Pl.
Inner Sleeve	Brass
Spring Plate	Brass
Spring / Locking Ring	AISI 301
Locking Balls	AISI 420
Seals	NBR

Plug

Steel Hardened, Nickel Pl.

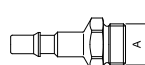
Coupling - Male Thread BSPT

Thread A	Order code	Box Qty
1/4"	18KAAK13MPNS	5
3/8"	18KAAK17MPNS_03	5



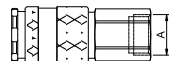
Plug - Male Thread BSPT

Thread A	Order code	Box Qty
1/4"	18SFAK13SXNS	20
3/8"	18SFAK17SXNS_01	5



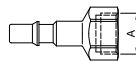
Coupling - Female Thread BSPP

Thread A	Order code	Box Qty
1/4"	18KAIW13MPNS_01	5
3/8"	18KAIW17MPNS_02	5
1/2"	18KAIW21MPNS_01	5

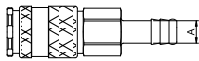


Plug - Female Thread BSPP

Thread A	Order code	Box Qty
1/4"	18SFIW13SXNS	20
3/8"	18SFIW17SXNS	20



Coupling - Hose Barb

	Thread	Order code	Box Qty
	A		
	8 mm	18KATF08MPNS_03	5
	10 mm	18KATF10MPNS_02	5

Plug - Hose Barb

	Thread	Order code	Box Qty
	A		
	6 mm	18SFTF06SXNS	20
	8 mm	18SFTF08SXNS	20
	10 mm	18SFTF10SXNS	20

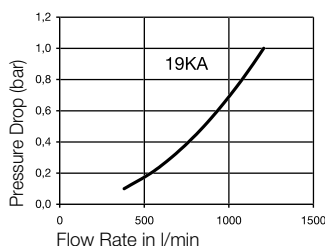
Rectus Series 19KA - DN 5.5

English industrial profile with UltraFlo technology. Compact dimensions. Robust coupling for compressed air applications. The steel sleeve counters oscillating forces.

Advantages

- Single handed operation
- Plug design optimised through greater insert depth
- UltraFlo technology with high flow valve

Chart / Air



Working Pressure

PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-20°C up to +100°C (NBR) depending on the medium.

*At a temperature below -20°C and above +100°C special seals are available on request.

Material

Coupling

Back Body	Brass, Nickel Plated
Valve Body	Brass, Nickel Plated
Sleeve	Steel Hardened, Nickel Pl.
Valve	Zinc Diecasting, Nickel Pl.
Inner Sleeve	Brass
Spring Plate	Brass
Spring / Locking Ring	AISI 301
Locking Balls	AISI 420
Seals	NBR

Plug

Steel Hardened, Nickel Pl.

Coupling - Male Thread BSPT

	Thread A	Order code	Box Qty
	1/4"	19KAAK13MPNS_99	10
	3/8"	19KAAK17MPNS_99	10
	1/2"	19KAAK21MPNS_99	10

Plug - Male Thread BSPT

	Thread A	Order code	Box Qty
	1/4"	19SFAK13SXN	20
	3/8"	19SFAK17SXN	20

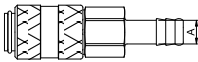
Coupling - Female Thread BSPP

	Thread A	Order code	Box Qty
	1/4"	19KAIW13MPNS_99	10
	1/2"	19KAIW21MPNS_99	10

Plug - Female Thread BSPP

	Thread A	Order code	Box Qty
	1/4"	19SFIW13SXN	20
	3/8"	19SFIW17SXN	20

Coupling - Hose Barb

	Thread A	Order code	Box Qty
	8 mm	19KATF08MPNS_99	10
	10 mm	19KATF10MPNS_99	10

Plug - Hose Barb

	Thread A	Order code	Box Qty
	6 mm	19SFTF06SXN	20
	8 mm	19SFTF08SXN	20
	10 mm	19SFTF10SXN	20

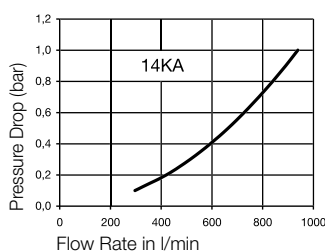
Rectus Series 14KA - DN 5.5

Robust brass coupling. Numerous connection options.
Preferred application: compressed air technology and
water connections. ARO 210 Interchangeable.

Advantages

- Single handed operation
- Optimised plug design through greater insert depth

Chart / Air



Working Pressure

PB = 35 bar, maximum static working pressure
with safety factor of 4 to 1.

Working Temperature*

-20°C up to +100°C (NBR)
depending on the medium.

*At a temperature below -20°C and above +100°C
special seals are available on request.

Material

Coupling

Back Body	Brass
Valve Body	Brass
Sleeve	Thermoplastic
Valve	Brass
Spring and	AISI 301
Locking Ring	
Pins	AISI 420
Seals	NBR

Plug

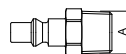
Steel Hardened,
Nickel Plated

Coupling - Male Thread BSPP



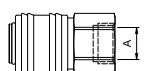
Thread A	Order code	Box Qty
1/4"	14KAAW13MPXS_99	20
3/8"	14KAAW17MPXS_99	20
1/2"	14KAAW21MPXS_99	20

Plug - Male Thread BSPT



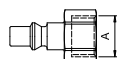
Thread A	Order code	Box Qty
1/4"	22SFAK13SXN	20
3/8"	22SFAK17SXN	20
1/2"	22SFAK21SXN	10

Coupling - Female Thread BSPP



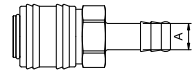
Thread A	Order code	Box Qty
1/4"	14KAIW13MPXS_99	20
1/2"	14KAIW21MPXS_99	20

Plug - Female Thread BSPP

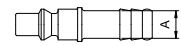


Thread A	Order code	Box Qty
1/4"	22SFIW13SXN	20
3/8"	22SFIW17SXN	20

Coupling - Hose Barb

	Thread A	Order code	Box Qty
	8 mm	14KATF08MPXS_99	20
	10 mm	14KATF10MPXS_99	20

Plug - Hose Barb

	Thread A	Order code	Box Qty
	6 mm	22SFTF06SXN	20
	8 mm	22SFTF08SXN	20
	10 mm	22SFTF10SXN	20

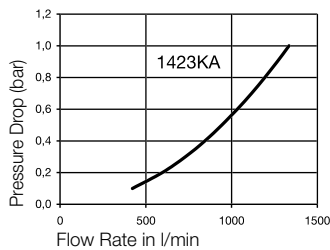
Rectus Series 1423KA - DN 5.5

RectusTema premium 1/4" industrial coupling - the know-how from both brands combined in one system. Conforming to ISO 6150 B. High grade valve technology for optimum flow performance. Especially robust 2-component plastic sleeve.

Advantages

- Single handed operation
- High flow valve
- Minimum coupling forces

Chart / Air



Working Pressure

PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-20°C up to +40°C (NBR)
depending on the medium.

*At a temperature below -20°C and above +40°C special seals are available on request.

Material

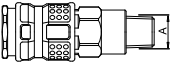
Coupling

Back Body	Brass, Nickel Plated
Valve Body	Steel, QPQ treated
Sleeve	PA6 + TPE
Valve	Brass
Spring	AISI 301
Locking Ring and	AISI 420
Locking Balls	
Seals	NBR

Plug

Steel Hardened,
Nickel Plated

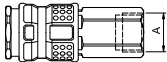
Coupling - Male Thread BSPT

	Thread A	Order code	Box Qty
	3/8"	1423KAAK17SPN_99	10
	1/2"	1423KAAK21SPN_99	10

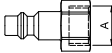
Plug - Male Thread BSPT

	Thread A	Order code	Box Qty
	1/4"	23SFAK13SXN	20
	3/8"	23SFAK17SXN	20

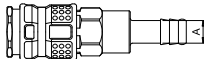
Coupling - Female Thread BSPP

	Thread A	Order code	Box Qty
	1/2"	1423KAIW21SPN_99	10

Plug - Female Thread BSPP

	Thread A	Order code	Box Qty
	1/4"	23SFIW13SXN	20
	3/8"	23SFIW17SXN	20

Coupling - Hose Barb



Thread A	Order code	Box Qty
9 mm	1423KATF09SPN_99	10
13 mm	1423KATF13SPN_99	10

Plug - Hose Barb



Thread A	Order code	Box Qty
6 mm	23SFTF06SXN	20
8 mm	23SFTF08SXN	20
10 mm	23SFTF10SXN	20

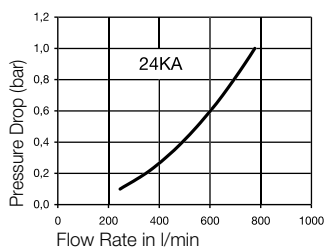
Rectus Series 24KA - DN 5.5

1/4" Industrial brass coupling conforming to ISO 6150B and US Mil. Spec 4109. Notable for brass mass design and corresponding sleeve design. Hardened steel plug counters vibrations and effects of external forces.

Advantages

- Single handed operation

Chart / Air



Working Pressure

PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-20°C up to +100°C (NBR)
depending on the medium.

*At a temperature below -20°C and above +100°C special seals are available on request.

Material

Coupling

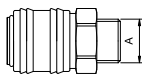
Back Body	Brass
Valve Body	Brass
Sleeve	Thermoplastic
Valve	Brass
Spring and Locking Ring	AISI 301
Pins	AISI 420
Seals	NBR

Plug

Steel Hardened,
Nickel Plated

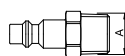
Coupling - Male Thread BSPP

Thread A	Order code	Box Qty
1/4"	24KAAW13MPXS_99	20
3/8"	24KAAW17MPXS_99	20
1/2"	24KAAW21MPXS_99	20



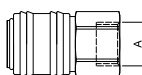
Plug - Male Thread BSPT

Thread A	Order code	Box Qty
1/4"	23SFAK13SXN	20
3/8"	23SFAK17SXN	20



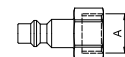
Coupling - Female Thread BSPP

Thread A	Order code	Box Qty
1/4"	24KAIW13MPXS_99	20
3/8"	24KAIW17MPXS_99	20
1/2"	24KAIW21MPXS_99	20

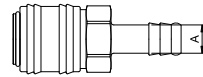


Plug - Female Thread BSPP

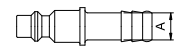
Thread A	Order code	Box Qty
1/4"	23SFIW13SXN	20
3/8"	23SFIW17SXN	20



Coupling - Hose Barb

	Thread A	Order code	Box Qty
	8 mm	24KATF08MPXS_99	20
	10 mm	24KATF10MPXS_99	20

Plug - Hose Barb

	Thread A	Order code	Box Qty
	6 mm	23SFTF06SXN	20
	8 mm	23SFTF08SXN	20
	10 mm	23SFTF10SXN	20

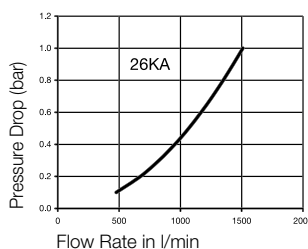
Rectus Series 26KA - DN 7.2

European standard industrial profile. Universal brass coupling. Ergonomic sleeve design prevents dirt on the valve body. Series 26 plugs in brass. Series 25 steel plugs recommended for oscillating forces.

Advantages

- Single handed operation
- European standard
- Small mass size

Chart / Air



Working Pressure

PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-20°C up to +100°C (NBR)
depending on the medium.

*At a temperature below -20°C and above +100°C special seals are available on request.

Material

Coupling

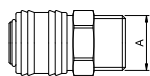
Back Body	Brass
Valve Body	Brass
Sleeve	Thermoplastic
Valve	Brass
Spring and Locking Ring	AISI 301
Locking Pins	AISI 420
Seals	NBR

Plug

Brass

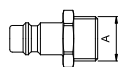
Coupling - Male Thread BSPP

Thread A	Order code	Box Qty
1/4"	26KAAW13MPXS_99	20
3/8"	26KAAW17MPXS_99	20
1/2"	26KAAW21MPXS_99	20



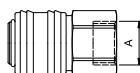
Plug - Male Thread BSPP

Thread A	Order code	Box Qty
1/4"	26SFAW13MXX	20
3/8"	26SFAW17MXX	20



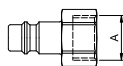
Coupling - Female Thread BSPP

Thread A	Order code	Box Qty
1/4"	26KAIW13MPXS_99	20
1/2"	26KAIW21MPXS_99	20

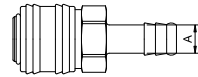


Plug - Female Thread BSPP

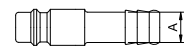
Thread A	Order code	Box Qty
1/4"	26SFIW13MXX	20
3/8"	26SFIW17MXX	20



Coupling - Hose Barb

	Thread A	Order code	Box Qty
	6 mm	26KATF06MPXS_99	20
	8 mm	26KATF08MPXS_99	20
	9 mm	26KATF09MPXS_99	20

Plug - Hose Barb

	Thread A	Order code	Box Qty
	6 mm	26SFTF06MXX	20
	8 mm	26SFTF08MXX	20
	9 mm	26SFTF09MXX	20

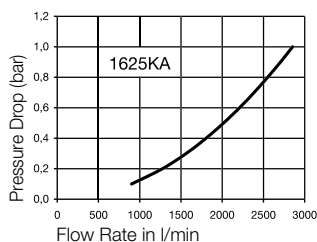
Rectus Series 1625KA - DN 7.8

RectusTema premium European standard industrial coupling – the know-how from both brands combined in one system. Extremely robust 2-component plastic sleeve. Suitable for compressed air applications with above average air consumption.

Advantages

- Single handed operation
- High grade valve technology with optimum flow performance
- Minimum coupling forces

Chart / Air



Working Pressure

PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-20°C up to +40°C (NBR)
depending on the medium.

*At a temperature below -20°C and above +40°C special seals are available on request.

Material

Coupling

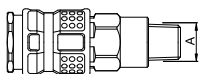
Back Body	Brass, Nickel Plated
Valve Body	Steel, QPQ treated
Sleeve	PA6 + TPE
Valve	Brass
Spring	AISI 301
Locking Ring and	AISI 420
Locking Balls	
Seals	NBR

Plug

Steel Hardened, Zinc Plated

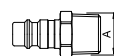
Coupling - Male Thread BSPT

Thread A	Order code	Box Qty
3/8"	1625KAAK17SPN_99	10
1/2"	1625KAAK21SPN_99	10



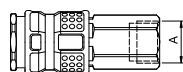
Plug - Male Thread BSPT

Thread A	Order code	Box Qty
1/4"	25SFAK13SXZ	20
3/8"	25SFAK17SXZ	20
1/2"	25SFAK21SXZ	10



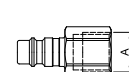
Coupling - Female Thread BSPP

Thread A	Order code	Box Qty
1/2"	1625KAIW21SPN_99	10

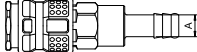


Plug - Female Thread BSPP

Thread A	Order code	Box Qty
1/4"	25SFIW13SXZ	20
3/8"	25SFIW17SXZ	20



Coupling - Hose Barb

	Thread A	Order code	Box Qty
	9 mm	1625KATF09SPN_99	10
	13 mm	1625KATF13SPN_99	10

Plug - Hose Barb

	Thread A	Order code	Box Qty
	9 mm	25SFTF09SXZ	20
	13 mm	25SFTF13SXZ	20

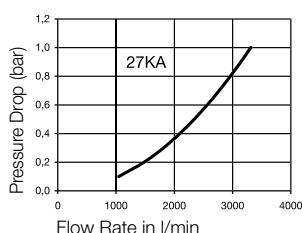
Rectus Series 27KA - DN 10

1/2" European industrial profile with UltraFlo technology. High flow performance. Notable for robust design with steel sleeve in use with large pneumatic consumers. Also available in brass.

Advantages

- Single handed operation
- High flow valve - low pressure drop
- No damage to the valve body from binding design

Chart / Air



Working Pressure

PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-20°C up to +100°C (NBR)
depending on the medium.

*At a temperature below -20°C and above +100°C special seals are available on request.

Material

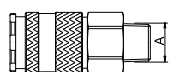
Coupling

Back Body	Brass, Nickel Plated
Valve Body	Brass, Nickel Plated
Sleeve	Steel Hardened, Nickel Pl.
Valve	Brass
Inner Sleeve	Brass
Spring Plate	Brass
Spring and Locking Ring	AISI 301
Locking Balls	AISI 420
Seals	NBR

Plug

Steel Hardened, Nickel Pl.

Coupling - Male Thread BSPT



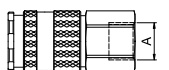
Thread A	Order code	Box Qty
3/8"	27KAAK17MPNS_04	2
1/2"	27KAAK21MPNS_07	2

Plug - Male Thread BSPT



Thread A	Order code	Box Qty
1/4"	27SFAK13SXNS_01	10
3/8"	27SFAK17SXNS_01	10
1/2"	27SFAK21SXNS_01	10

Coupling - Female Thread BSPP



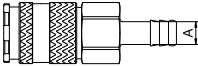
Thread A	Order code	Box Qty
3/8"	27KAIW17MPNS_05	5
1/2"	27KAIW21MPNS_06	5

Plug - Female Thread BSPP



Thread A	Order code	Box Qty
3/8"	27SFIW17SXNS_02	10
1/2"	27SFIW21SXNS_02	10

Coupling - Hose Barb

	Thread A	Order code	Box Qty
	10 mm	27KATF10MPNS_06	2
	13 mm	27KATF13MPNS_06	2

Plug - Hose Barb

	Thread A	Order code	Box Qty
	8 mm	27SFTF08SXNS	20
	10 mm	27SFTF10SXNS_01	20
	13 mm	27SFTF13SXNS_02	10

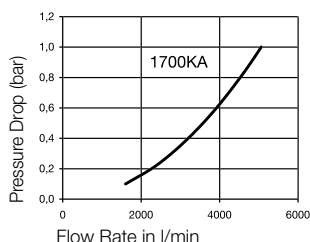
Rectus Series 1700KA - DN 10

Premium industrial coupling in nominal diameter 10 with high grade valve technology and unprecedented flow values and minimum coupling forces. Especially suited to compressed air applications with above average air consumption.

Advantages

- Single handed operation
- High flow valve
- Minimum coupling forces

Chart / Air



Working Pressure

PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-20°C up to +100°C (NBR) depending on the medium.

*At a temperature below -20°C and above +100°C special seals are available on request.

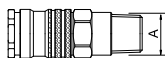
Material

Coupling

Back Body	Brass, Nickel Plated
Valve Body	Steel, QPQ treated
Sleeve	Brass, Nickel Plated
Valve	Brass
Locking Ring and Locking Balls	AISI 301
Spring	AISI 420
Seals	NBR
Plug	Steel Hardened, Zinc Plated

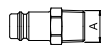
Coupling - Male Thread BSPT

Thread A	Order code	Box Qty
3/8"	1700KAAK17SPN_99	5
1/2"	1700KAAK21SPN_99	5
3/4"	1700KAAK26SPN_99	5



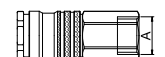
Plug - Male Thread BSPT

Thread A	Order code	Box Qty
1/4"	27SFAK13SXNS_01	10
3/8"	27SFAK17SXNS_01	10
1/2"	27SFAK21SXNS_01	10



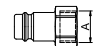
Coupling - Female Thread BSPP

Thread A	Order code	Box Qty
3/8"	1700KAIW17SPN_99	5
1/2"	1700KAIW21SPN_99	5
3/4"	1700KAIW26SPN_99	5

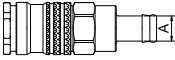


Plug - Female Thread BSPP

Thread A	Order code	Box Qty
3/8"	27SFIW17SXNS_02	10
1/2"	27SFIW21SXNS_02	10



Coupling - Hose Barb

	Thread A	Order code	Box Qty
	10 mm	1700KATF10SPN_99	5
	13 mm	1700KATF13SPN_99	5
	16 mm	1700KATF16SPN_99	5

Plug - Hose Barb

	Thread A	Order code	Box Qty
	8 mm	27SFTF08SXNS	20
	10 mm	27SFTF10SXNS_01	20
	13 mm	27SFTF13SXNS_02	10

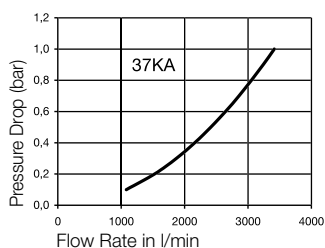
Rectus Series 37KA - DN 11

1/2" Coupling-system according to US-MIL-Spec.
C-4109 made of brass. Plug design optimised through greater insert depth.

Advantages

- Single handed operation
- Tough construction

Chart / Air



Working Pressure

PB = 35 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-20°C up to +100°C (NBR)
depending on the medium.

*At a temperature below -20°C and above +100°C special seals are available on request.

Material

Coupling

Back Body	Brass
Valve Body	Brass
Sleeve	Brass
Valve	Brass
Spring and	AISI 301
Locking Ring	
Pins	AISI 420
Seals	NBR

Plug

Steel Hardened,
Nickel Plated

Coupling - Male Thread BSPP

	Thread A	Order code	Box Qty
	3/8"	37KAAW17MPXS	2
	1/2"	37KAAW21MPXS	2
	3/4"	37KAAW26MPXS	2

Plug - Male Thread BSPT

	Thread A	Order code	Box Qty
	1/2"	37SFAK21SXNS	10
	3/4"	37SFAK26SXNS	5

Coupling - Female Thread BSPP

	Thread A	Order code	Box Qty
	3/8"	37KAIW17MPXS	2
	1/2"	37KAIW21MPXS	2
	3/4"	37KAIW26MPXS	2

Plug - Female Thread BSPP

	Thread A	Order code	Box Qty
	1/2"	37SFIW21SXNS_01	5
	3/4"	37SFIW26SXNS	5

Plug - Hose Barb

Thread A	Order code	Box Qty
13 mm	37SFTF13SXNS	10
16 mm	37SFTF16SXNS	10
19 mm	37SFTF19SXNS	5

Rectus Self-Venting Series 14KE - DN 5.5

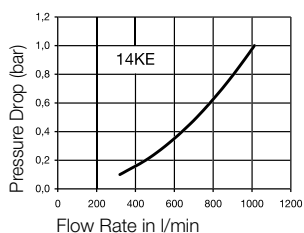
The connection is made the same way as with all other quick connect coupling series, by simply pushing the plug in the coupling. The audible latching when the plug is securely in place signifies that the coupling is locked. The sleeve must be pulled back to release the first locking system before it can be disconnected. This closes the coupling valve. The compressed downstream air can now escape from the plug (hose). Pulling the sleeve back a second time releases the second locking system. The connection can now be safely undone. This self-venting coupling, designed for bleeding off trapped air, is not suitable for direct connection to compressed air tools.

Advantages

The system fulfils the requirements of ISO 4414

- increased safety standards in the work place
- the plastic sleeve does not scratch working surfaces

Chart / Air



Caution

Not recommended for direct connection to compressed air tools. Reliable functioning can only be guaranteed in conjunction with original Rectus plugs made of steel.

Working Pressure

PB = 12 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-20°C up to +60°C (NBR)
depending on the medium.

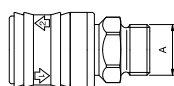
*At a temperature below -20°C and above +60°C special seals are available on request.

Material

Coupling

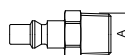
Back Body	Brass, Nickel Plated
Valve Body	Brass, Nickel Plated
Sleeve	Thermoplastic
Valve	Brass
Spring	AISI 301
Locking Balls	AISI 420
Seals	NBR
Pins	AISI 420
Plug	Steel Hardened, Nickel Pl.

Coupling - Male Thread BSPT



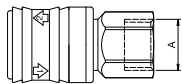
Thread A	Order code	Box Qty
1/4"	14KEAK13MPNS_99	10
1/2"	14KEAK21MPNS_99	10

Plug - Male Thread BSPT



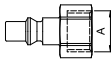
Thread A	Order code	Box Qty
1/4"	22SFAK13SXN	20
3/8"	22SFAK17SXN	20
1/2"	22SFAK21SXN	10

Coupling - Female Thread BSPP



Thread A	Order code	Box Qty
1/4"	14KEIW13MPNS_99	10
1/2"	14KEIW21MPNS_99	10

Plug - Female Thread BSPP



Thread A	Order code	Box Qty
1/4"	22SFIW13SXN	20
3/8"	22SFIW17SXN	20

Plug - Hose Barb



Thread A	Order code	Box Qty
6 mm	22SFTF06SXN	20
8 mm	22SFTF08SXN	20
10 mm	22SFTF10SXN	20

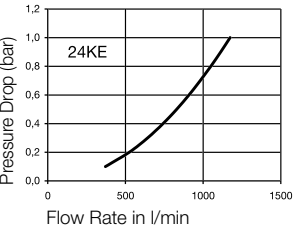
Rectus Self-Venting Series 24KE - DN 5.5

The connection is made the same way as with all other quick connect coupling series, by simply pushing the plug in the coupling. The audible latching when the plug is securely in place signifies that the coupling is locked. The sleeve must be pulled back to release the first locking system before it can be disconnected. This closes the coupling valve. The compressed downstream air can now escape from the plug (hose). Pulling the sleeve back a second time releases the second locking system. The connection can now be safely undone. This self-venting coupling, designed for bleeding off trapped air, is not suitable for direct connection to compressed air tools.

Advantages

- The system fulfils the requirements of ISO 4414
- increased safety standards in the work place
 - the plastic sleeve does not scratch working surfaces

Chart / Air



Caution

Not recommended for direct connection to compressed air tools. Reliable functioning can only be guaranteed in conjunction with original Rectus plugs made of steel.

Working Pressure

PB = 12 bar, maximum static working pressure with safety factor of 4 to1.

Working Temperature*

-20°C up to +60°C (NBR)
depending on the medium.
*At a temperature below -20°C and above +60°C special seals are available on request.

Material

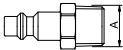
Coupling

Back Body	Brass, Nickel Plated
Valve Body	Brass, Nickel Plated
Sleeve	Thermoplastic
Valve	Brass
Spring and Locking Ring	AISI 301
Locking Balls	AISI 420
Seals	NBR
Pins	AISI 420
Plug	Steel Hardened, Nickel Pl.

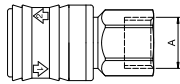
Coupling - Male Thread BSPT

	Thread A	Order code	Box Qty
	1/4"	24KEAK13MPNS_99	10
	1/2"	24KEAK21MPNS_99	10

Plug - Male Thread BSPT

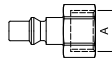
	Thread A	Order code	Box Qty
	1/4"	23SFAK13SXN	20
	3/8"	23SFAK17SXN	20

Coupling - Female Thread BSPP



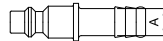
Thread A	Order code	Box Qty
1/4"	24KEIW13MPNS_99	10
1/2"	24KEIW21MPNS_99	10

Plug - Female Thread BSPP



Thread A	Order code	Box Qty
3/8"	23SFIW13SXN	20
1/2"	23SFIW17SXN	20

Plug - Hose Barb



Thread A	Order code	Box Qty
6 mm	23SFTF06SXN	20
8 mm	23SFTF08SXN	20
10 mm	23SFTF10SXN	20

Rectus Self-Venting Series 26KE - DN 7.4

The connection is made the same way as with all other quick connect coupling series, by simply pushing the plug in the coupling. The audible latching when the plug is securely in place signifies that the coupling is locked. The sleeve must be pulled back to release the first locking system before it can be disconnected. This closes the coupling valve. The compressed downstream air can now escape from the plug (hose). Pulling the sleeve back a second time releases the second locking system. The connection can now be safely undone. This self-venting coupling, designed for bleeding off trapped air, is not suitable for direct connection to compressed air tools.

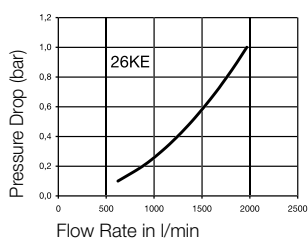


Advantages

The system fulfils the requirements of ISO 4414

- increased safety standards in the work place
- the plastic sleeve does not scratch working surfaces

Chart / Air



Caution

Not recommended for direct connection to compressed air tools. Reliable functioning can only be guaranteed in conjunction with original Rectus plugs made of steel.

Working Pressure

PB = 12 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-20°C up to +60°C (NBR)
depending on the medium.

*At a temperature below -20°C and above +60°C special seals are available on request.

Material

Coupling

Back Body	Brass, Nickel Plated
Valve Body	Brass, Nickel Plated
Sleeve	Thermoplastic
Valve	Brass
Spring	AISI 301
Locking Balls	AISI 420
Seals	NBR
Pin	AISI 420

Plug

Steel Hardened, Nickel Pl.

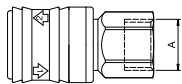
Coupling - Male Thread BSPP

	Thread A	Order code	Box Qty
	1/4"	26KEAW13MPNS_99	10
	1/2"	26KEAW21MPNS_99	10

Plug - Male Thread BSPT

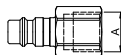
	Thread A	Order code	Box Qty
	1/4"	25SFAK13SXZ	20
	3/8"	25SFAK17SXZ	20
	1/2"	25SFAK21SXZ	10

Coupling - Female Thread BSPP



Thread A	Order code	Box Qty
1/4"	26KEIW13MPNS_99	5
3/8"	26KEIW17MPNS_99	5

Plug - Female Thread BSPP



Thread A	Order code	Box Qty
1/4"	25SFIW13SXZ	20
3/8"	25SFIW17SXZ	20

Plug - Hose Barb



Thread A	Order code	Box Qty
9 mm	25SFTF09SXZ	20
13 mm	25SFTF13SXZ	20

Rectus self-venting Series 27KE - DN 10

With nominal diameter 10, one of the largest range in a new generation of couplings with ventilation technology. Two-stage uncoupling prevents occurrence of the whiplash effect. Connected in the same manner as all standard couplings – single hand operation. The venting takes place without any danger to the operators during the disconnecting process – no danger of being hit by a whipping hose that is still pressurized. The system fulfils the requirements stipulated in ISO 4414 for increased safety standards in the working place.

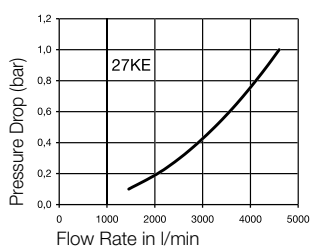


Advantages

The system fulfils the requirements of ISO 4414

- increased safety standards in the work place
- the plastic sleeve does not scratch working surfaces

Chart / Air



Caution

Not recommended for direct connection to compressed air tools. Reliable functioning can only be guaranteed in conjunction with original Rectus plugs made of steel.

Working Pressure

PB = 12 bar, maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-20°C up to +60°C (NBR)
depending on the medium.

*At a temperature below -20°C and above +60°C special seals are available on request.

Material

Coupling

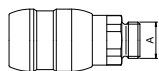
Back Body	Brass, Nickel Plated
Valve Body	Steel, Nickel Plated
Sleeve	Polyamide, Fiber Glass Reinforced

Valve	Brass
Spring	AISI 301
Locking Balls	AISI 420
Seals	NBR

Plug

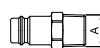
Steel Hardened, Nickel Pl.

Coupling - Male Thread BSPT



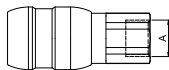
Thread A	Order code	Box Qty
1/4"	27KEAK21MPNS_99	2
3/4"	27KEAK26MPNS_99	2

Plug - Male Thread BSPT



Thread A	Order code	Box Qty
1/4"	27SFAK13SXNS_01	10
3/8"	27SFAK17SXNS_01	10
1/2"	27SFAK21SXNS_01	10

Coupling - Female Thread BSPP



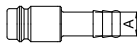
Thread A	Order code	Box Qty
1/2"	27KEIW21MPNS_99	2
3/4"	27KEIW26MPNS_99	2

Plug - Female Thread BSPP



Thread A	Order code	Box Qty
3/8"	27SFIW17SXNS_02	10
1/2"	27SFIW21SXNS_02	10

Plug - Hose Barb



Thread A	Order code	Box Qty
8 mm	27SFTF08SXNS	20
10 mm	27SFTF10SXNS_01	20
13 mm	27SFTF13SXNS_02	10

Blow Guns

Plastic - with Aluminium Extension Nozzle

	Thread	Order code	Box Qty
	1/4"	AK13S_99	20

Aluminium with Standard Nozzle

	Thread	Order code	Box Qty
	1/4"	AA13	20

Plastic, Aluminium Nozzle, Plug 26SF Series

	Thread	Order code	Box Qty
	26SF	AK26SFS_99	20

Aluminium, Standard Nozzle, Plug 26SF Series

	Thread	Order code	Box Qty
	26SF	AA26SF	20

Hose Tail Barb, Brass

Male Thread

	Connection	Order code	Box Qty
	G 1/4, 8 mm	GT13/08	20
	G 3/8, 13 mm	GT17/13	20
	G 1/2, 9 mm	GT21/09	20
	G 1/2, 13 mm	GT21/13	20

3 Way Manifold Assembly

Brass, with Couplings 26KA Series

	Connection	Order code	Box Qty
	G 1/4 i.	DM13I	20
	G 3/8 i.	DM17I	20
	G 1/2 i.	DM21I	20

PA12 Tubing

26 Series Coupling and Plug with Spring Guard

	Connection /mm	Length	Order code	Box Qty
	6,3 x 7,9	5,0 m	SP08/050/K+S	1
	9,5 x 11,8	7,5 m	SP12/075/K+S	1

PU Tubing

with Straight Extensions 508 mm and 127 mm

	Connection /mm	Length	Order code	Box Qty
	6,3 x 9,5	6,0 m	PU10/060/DV	1
	8,0 x 12,0	7,5 m	PU12/075/DV	1

- Twistlok action
- Wide choice of adaptors
- Non whip adaptors
- Rugged design



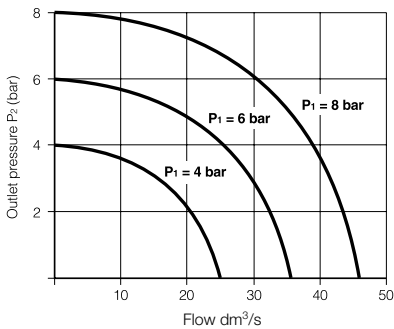
Twistlok Units

Designed for single hand connection or disconnection. A twist on the cap will release the adaptor and the airline is automatically resealed. When coupled the check unit allows the adaptors to swivel, to eliminate kinking of the hose.

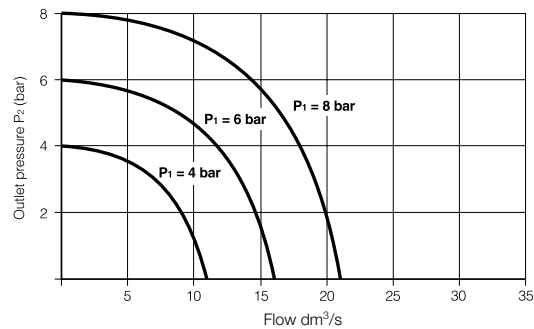
Operating and additional information			Materials	
	Standard	Heavy Duty	Body	Aluminium
Pressure range	Partial vacuum to 17 bar	Partial vacuum to 17 bar	Washer holder	Brass chrome plated
Temperature range	-10°C to +80°C	-10°C to +80°C	Spring	Stainless steel
Fluids	Air	Air	Deflector	Brass
Q max	23.6 dm³/s	51.9 dm³/s	Sleeve	Steel zinc plated
Cv	1.07	1.9	Seals	Nitrile (viton on request)
			Adaptors	Plated mild steel

Flow Rates

Pressure vs Flow
Schrader Standard 1/4 Female Coupling



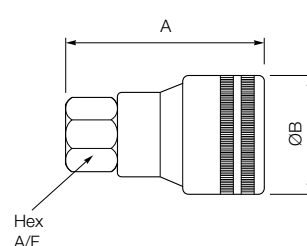
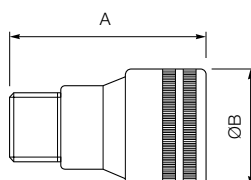
Pressure vs Flow
Schrader Heavy Duty 1/2 Female Coupling



Twistlok Standard Check Units

Profile

Symbol

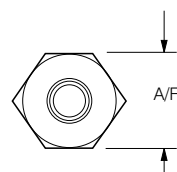
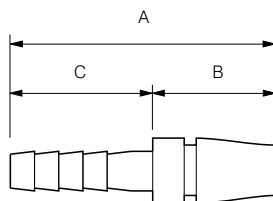
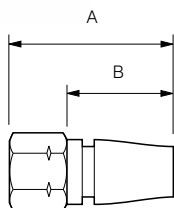
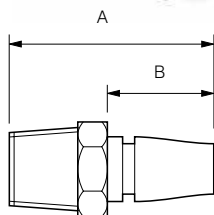
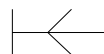


Order Code	Pack Qty	Connection	Weight (g)	Dimensions (mm)		
				A	ØB	Hex A/F
8952DL-12	1	G1/4 Female (BSPP)	120	45	30	17,5
9793D-12	1	R1/4 Male (BSPT)	132	55	30	18,0
9792D-12	1	R3/8 Male (BSPT)	138	55	30	18,0

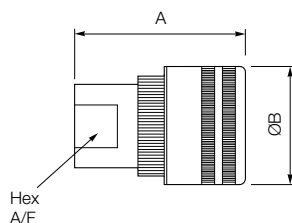
Standard Adaptors

Profile

Symbol



Order Code	Pack Qty	Connection	Weight (g)	Dimensions (mm)			
				A	B	C	Hex A/F
8051B-11	1	R1/8 Male (BSPT)	15	42	24,5	-	14,0
8050B-11	1	R1/4 Male (BSPT)	20	44	24,5	-	14,0
2047B	1	G1/8 Female (BSPP)	26	42	24,5	-	14,0
8278L-11	1	G1/4 Female (BSPP)	34	46	31,0	-	17,5
8787-11	1	1/4" (6mm)	Hose Tail	57	30,0	27	14,0
9750-11	1	5/16" (8mm)	Hose Tail	57	30,0	27	14,0
8788-11	1	3/8" (10mm)	Hose Tail	57	30,0	27	14,0
9031	1	G1/4 Female Non-whip	(BSPP)	55	31,0	-	17,5

Twistlok Heavy Duty
Check Units

Profile

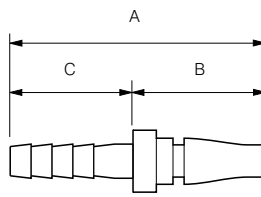
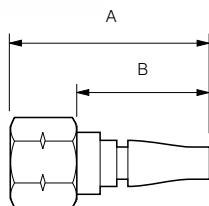
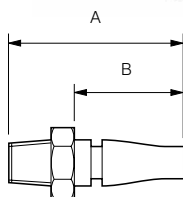


Symbol



Order Code	Pack Qty	Connection	Weight (g)	Dimensions (mm)		
				A	ØB	Hex A/F
1054EL-12	1	G1/4 Female (BSPP)	168	58	37	17,5
1095EL-12	1	G3/8 Female (BSPP)	160	58	38	24,0
1461EL-12	1	G1/2 Female (BSPP)	180	58	37	25,5
1462EL-12	1	G3/4 Female (BSPP)	220	63	37	33,0

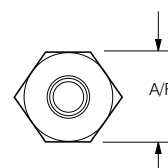
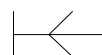
Heavy Duty Adaptors



Profile



Symbol



Order Code	Pack Qty	Connection	Weight (g)	Dimensions (mm)			
				A	B	C	Hex A/F
8624B-11	1	R1/4 Male (BSPT)	44	48,0	28	-	17,5
9739-11	1	R3/8 Male (BSPT)	60	48,0	28	-	22,0
8807-11	1	R1/2 Male (BSPT)	86	54,0	28	-	22,0
1462B-11	1	G3/4 Male (BSPP)	102	55,0	28	-	27,0
1261L-11	1	G1/4 Female (6mm)	44	43,0	28	-	17,5
1096B-11	1	G3/8 Female (8mm)	64	47,0	28	-	22,0
1097-11	1	3/8" (10mm)	46	71,0	33	38	-
1098-11	1	1/2" (12mm)	64	71,0	33	38	-
9042	1	G3/8 Female Non- whip	90	57,5	28	-	22,0

Air Preparation & Airline Accessories

PDE2611TCUK



Parker is the world leader in motion and control technologies, providing systematic, precision-engineered solutions for a wide variety of, industrial markets. Throughout the world, Parker Hannifin is working together with companies to make their machines more reliable and more productive. Parker products are in operation on satellites orbiting the earth: in machine tools and mobile plant; on oil rigs and refineries; in hospitals and laboratories. In fact, wherever there

are machines that depend on motion or fluid control, you will find innovative and reliable Parker components and systems.

PDE2611TCUK
Air Preparation

Global Air Preparation System



- Space saving integral gauge (P31 size only)
- Manifold style regulators available
- OSHA compliant shut-off valves
- Soft-Start & Quick Dump valves
- Electronic Proportional Regulator

Moduflex Dry Air System



- Designed in accordance with ASME VIII Div.1, approved to CSA/UL/CRN and fully CE Marked
- (PED, EMC, LVD) as standard.
- Flexible installation utilising the multiple in-line inlet & outlet connection ports.
- Can be Floor, Bench or Wall/Canopy mounted.
- Noise level less than 70dB(A).

Stainless Steel FRLs



- 316 Stainless steel FRL design to withstand harsh, corrosive environments
- Suitable for Marine & Offshore applications
- Chemical / Petroleum and process industries
- Coalescing filters are designed for removing oil and water aerosols down to 0.01µ

Moduflex Proportional Technology



- Very fast response times
- Accurate output pressure
- Micro parameter settings
- Selectable I/O parameters
- Quick, full flow exhaust.
- LED display indicates output pressure
- Auto enable function

Moduflex AirGuard Protection System



- Maintenance friendly, Repair possible while plant is still operating.
- Reliable and tamperproof, No adjustment necessary.
- Complies with EU current standard EN 983 - § 5.3.4.3.2.
- Complies with the 2009 ISO4414 (5.4.5.11.1)

P3X Moduflex Lite Series



- Integral 1/2 or 3/4 ports
- High efficiency 5 micron element as standard
- Excellent water removal efficiency
- Secondary pressure ranges 8 and 16 bar
- Rolling diaphragm for extended life
- Membrane dryers

Moduflex Compressed Air Filters



- Tested in accordance with ISO 8573.9
- High liquid removal efficiencies at all flow conditions
- Low pressure losses for low operational costs
- Multiple port sizes for a given flow rate provides increased flexibility during installation
- Suitable for variable flow compressors

Miniature FRL Series



- Compact body ported units.
- Port sizes G1/8 and G1/4.
- Unique deflector plate ensuring maximum water and particulate removal.
- Solid control piston with lip seal for extended life.
- Proportional oil delivery over a wide range of air flows.

High Precision Regulators



- High repeatability
- High relief capacity on R220 model
- High flow capacity on R230 model

At Parker, we're guided by a relentless drive to help our customers become more productive and achieve higher levels of profitability by engineering the best systems for their requirements. It means looking at customer applications from many angles to find new ways to create value. Whatever the motion and control technology need, Parker has the experience, breadth of product and global reach to consistently deliver. No company knows more about motion and control technology than Parker. For further info call 00800 27 27 5374.

**AEROSPACE****Key Markets**

- Aircraft engines
- Business & general aviation
- Commercial transports
- Land-based weapons systems
- Military aircraft
- Missiles & launch vehicles
- Regional transports
- Unmanned aerial vehicles

Key Products

- Flight control systems & components
- Fluid conveyance systems
- Fluid metering delivery & atomization devices
- Fuel systems & components
- Hydraulic systems & components
- Inert nitrogen generating systems
- Pneumatic systems & components
- Wheels & brakes

**CLIMATE CONTROL****Key Markets**

- Agriculture
- Air conditioning
- Food, beverage & dairy
- Life sciences & medical
- Precision cooling
- Processing
- Transportation

Key Products

- CO₂ controls
- Electronic controllers
- Filter driers
- Hand shut-off valves
- Hose & fittings
- Pressure regulating valves
- Refrigerant distributors
- Safety relief valves
- Solenoid valves
- Thermostatic expansion valves

**ELECTROMECHANICAL****Key Markets**

- Aerospace
- Factory automation
- Food & beverage
- Life science & medical
- Machine tools
- Packaging machinery
- Paper machinery
- Plastics machinery & converting
- Primary metals
- Semiconductor & electronics
- Textile
- Wire & cable

Key Products

- AC/DC drives & systems
- Electric actuators
- Controllers
- Gantry robots
- Gearheads
- Human machine interfaces
- Industrial PCs
- Inverters
- Linear motors, slides and stages
- Precision stages
- Stepper motors
- Servo motors, drives & controls
- Structural extrusions

**FILTRATION****Key Markets**

- Food & beverage
- Industrial machinery
- Life sciences
- Marine
- Mobile equipment
- Oil & gas
- Power generation
- Process
- Transportation

Key Products

- Analytical gas generators
- Compressed air & gas filters
- Condition monitoring
- Engine air, fuel & oil filtration & systems
- Hydraulic, lubrication & coolant filters
- Process, chemical, water & microfiltration filters
- Nitrogen, hydrogen & zero air generators

**FLUID & GAS HANDLING****Key Markets**

- Aerospace
- Agriculture
- Bulk chemical handling
- Construction machinery
- Food & beverage
- Fuel & gas delivery
- Industrial machinery
- Mobile
- Oil & gas
- Transportation
- Welding

Key Products

- Brass fittings & valves
- Diagnostic equipment
- Fluid conveyance systems
- Industrial hose
- PTFE & PFA hose, tubing & plastic fittings
- Rubber & thermoplastic hose & couplings
- Tube fittings & adapters
- Quick disconnects

**HYDRAULICS****Key Markets**

- Aerospace
- Aerial lift
- Agriculture
- Construction machinery
- Forestry
- Industrial machinery
- Mining
- Oil & gas
- Power generation & energy
- Truck hydraulics

Key Products

- Diagnostic equipment
- Hydraulic cylinders & accumulators
- Hydraulic motors & pumps
- Hydraulic systems
- Hydraulic valves & controls
- Power take-offs
- Rubber & thermoplastic hose & couplings
- Tube fittings & adapters
- Quick disconnects

**PNEUMATICS****Key Markets**

- Aerospace
- Conveyor & material handling
- Factory automation
- Food & beverage
- Life science & medical
- Machine tools
- Packaging machinery
- Transportation & automotive

Key Products

- Air preparation
- Compact cylinders
- Field bus valve systems
- Grippers
- Guided cylinders
- Manifolds
- Miniature fluidics
- Pneumatic accessories
- Pneumatic actuators & grippers
- Pneumatic valves and controls
- Rodless cylinders
- Rotary actuators
- Tie rod cylinders
- Vacuum generators, cups & sensors

**PROCESS CONTROL****Key Markets**

- Chemical & refining
- Food, beverage & dairy
- Medical & dental
- Microelectronics
- Oil & gas
- Power generation

Key Products

- Analytical sample conditioning products & systems
- Fluoropolymer chemical delivery fittings, valves & pumps
- High purity gas delivery fittings, valves & regulators
- Instrumentation fittings, valves & regulators
- Medium pressure fittings & valves
- Process control manifolds

**SEALING & SHIELDING****Key Markets**

- Aerospace
- Chemical processing
- Consumer
- Energy, oil & gas
- Fluid power
- General industrial
- Information technology
- Life sciences
- Military
- Semiconductor
- Telecommunications
- Transportation

Key Products

- Dynamic seals
- Elastomeric o-rings
- EMI shielding
- Extruded & precision-cut, fabricated elastomeric seals
- Homogeneous & inserted elastomeric shapes
- High temperature metal seals
- Metal & plastic retained composite seals
- Thermal management

ENGINEERING YOUR SUCCESS.

