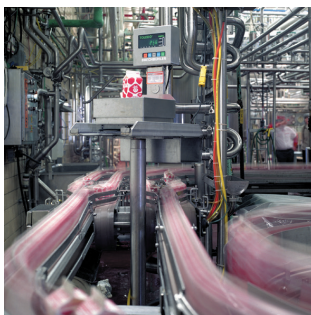
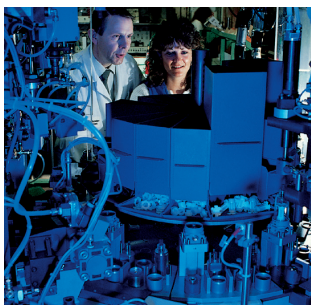




aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



P3X Lite Series Air Preparation System

G1/2 & G3/4 Body ported

Catalogue no. PDE2620TCUK July 2020



ENGINEERING YOUR SUCCESS.

PDE2620TCUK

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WARNING

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

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PDE2620TCUK

P3X Lite Series

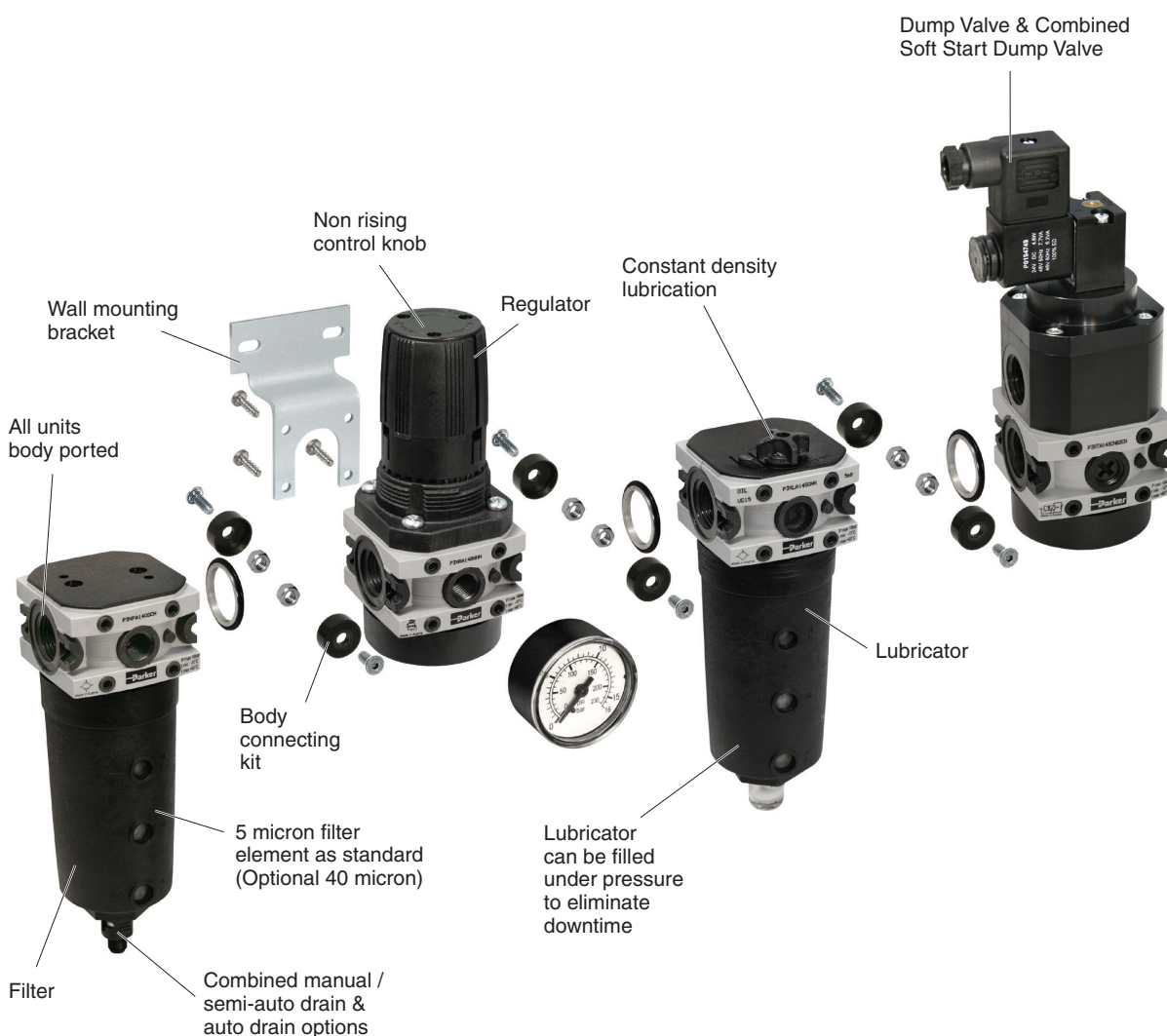
The System

The P3X 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 P3X 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 P3X series.

The P3X 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.

The P3X mist lubricators are designed to provide lubrication for many general purpose applications in a pneumatic system.



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P3X Lite Series

New Technology

The P3X 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 P3X 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 P3X 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 P3X Lite a very cost effective solution.

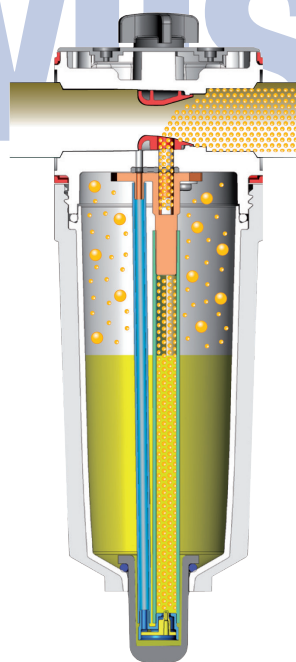


New Nano Mist Technology, New Lubricator Concept. Self-Adjusting.

With conventional lubricators, only the oil volume per time unit can be adjusted. If the demand changes, the quantity dispensed still remains constant.

The P3X Lite lubricator concept sets new benchmarks here. For the first time, the oil volume is automatically adjusted to the flow rate. This ensures that there is neither too little nor too much oil in the system, which leads to clear economic and ecological advantages. In addition, with conventional systems, the distance between the lubricator and the equipment has to be less than 8 meters. With larger distances, the dispensed oil is deposited as a wall flow.

The new lubricator principle of the P3X Lite allows for distances of up to 40 meters. This opens up new scope for the design of even more efficient production systems.



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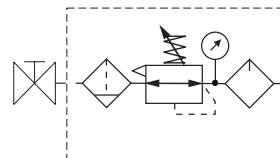
PDE2620TCUK
P3X Lite Series

Popular Combinations



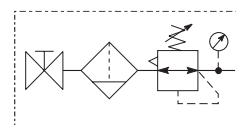
Slide Valve + Filter/Regulator + Lubricator Combinations (50mg/m³) 5 micron element, 8 bar Regulator + Gauge and Wall Mounting Brackets

Port size	Combined Manual/Semi-Auto Drain	Flow dm³/s	Weight (g)	Auto Drain	Flow dm³/s	Weight (g)
G ¹ / ₂	P3XAA14GECNGPNW	76	1300	P3XAA14GEANGPNW	76	1300
G ³ / ₄	P3XAA16GECNGPNW	77	1300	P3XAA16GEANGPNW	77	1300



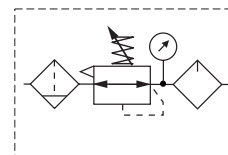
Slide Valve + Filter/Regulator Combinations 5 micron element, 8 bar Regulator + Gauge and Wall Mounting Brackets

Port size	Combined Manual/Semi-Auto Drain	Flow dm³/s	Weight (g)	Auto Drain	Flow dm³/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 dm³/s	Weight (g)	Auto Drain	Flow dm³/s	Weight (g)
G ¹ / ₂	P3XCA14GECNGPNW	76	1000	P3XCA14GEANGPNW	76	1000
G ³ / ₄	P3XCA16GECNGPNW	77	1000	P3XCA16GEANGPNW	77	1000



Options:

P 3 X				GE				W
Filter/Reg + Lubricator	CA	BSPP (G)	1	Combined Manual/Semi Auto Drain	C	0 - 8 bar with gauge	G	
Slide valve + Filter/Reg	AN	NPT *	9	Auto Drain	A	0 - 16 bar with gauge	J	
Slide valve + Filter/Reg + Lubricator	AA							
* NPT ports on request 1/2" size only		1/2	4	Non rise - Standard	N	(50mg/m³)	PN	Add only for options with lubricator
		3/4	6	Tamperproof - Lockable	A	(5mg/m³)	SN	

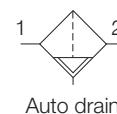
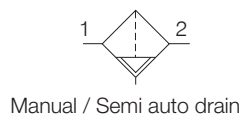


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Filter



Symbols



- Integral 1/2 or 3/4" ports
- 2 stage filtration
- High efficiency 5µ particulate element as standard
- Excellent water removal efficiency
- Low temperature -40°C with combined manual/semi - auto drain as standard

Options:

P 3 X F A						G		N
BSPP (G)	1	1/2	4	5 Micron Element Standard	E	Combined Manual/Semi Auto Drain	C	
NPT *	9	3/4	6	40 Micron Element Optional	G	Auto Drain	A	
				1 Micron Dust Filter	2			

* NPT ports on request
1/2" size only

Port size	Description	Order Code	Flow dm³/s *	Max bar	Min temp °C	Max temp °C	Bowl capacity cm³	Height mm	Width mm	Depth mm	Weight g
1/2	Combined manual/semi auto drain	P3XFA14EGCN	55	16	-40	60	60	192	62	62	320
1/2	Auto drain	P3XFA14EGAN	55	16	-10	60	60	192	62	62	320
3/4	Combined manual/semi auto drain	P3XFA16EGCN	57	16	-40	60	60	192	62	62	320
3/4	Auto drain	P3XFA16EGAN	57	16	-10	60	60	192	62	62	320

* flow with 6,3 bar inlet pressure and 0,5 pressure drop.

PDE2620TCUK P3X Lite Series

Filters

Technical Information

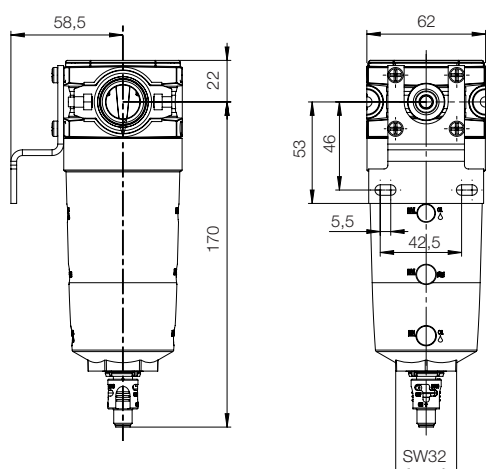
Fluid:	Compressed air
Maximum inlet pressure:	16 bar
Temperature range*:	
Auto drain:	-10°C to +60°C
Combined drain:	-40°C to +60°C
Particle removal:	1, 5 & 40 micron
Air quality:	Within ISO 8573-1 : 1991 Class 3 and 5 (particulates) Within ISO 8573-1 : 2001 Class 6 and 7 (particulates)
Typical flow with 5µm element 6,3 bar inlet pressure and 0.5 bar pressure drop:	1/2" size 55 dm³/s
Semi-auto drain: bowl pressure to close drain	0.8 bar
Auto drain: bowl pressure to close drain Operating range manual override facility	0.8 bar 0.8 to 16 bar
Bowl sump capacity:	60 cm³

* Air supply must be dry enough to avoid ice formation at temperatures below +2°C

Material Specification

Body:	High tech polymer
Sight glass:	Polypropylene
Body cover:	ABS
Element:	Sintered P.E.
Seals:	Nitrile NBR
Drains:	Manual / Semi-auto: Acetal Automatic: PA / Brass

Dimensions (mm)

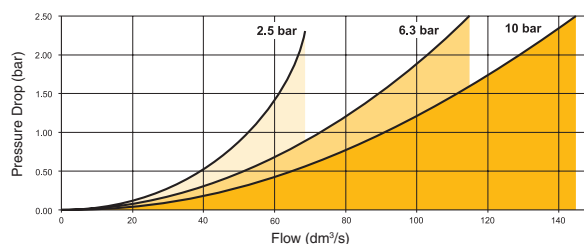


Service kits

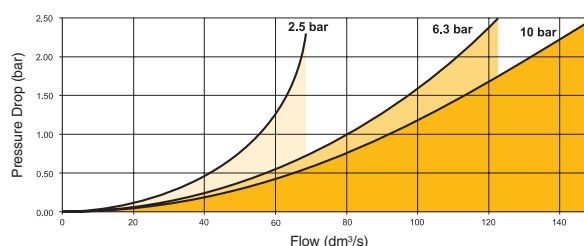
Description	Order code
5 micron element kit	P3XKA00ESE
40 micron element kit	P3XKA00ESG
Bowl kit with combines manual/semi auto drain	P3XKA00BSC
Bowl kit with auto drain	P3XKA00BSA
1 micron element kit	P3XKA00ES9

Flow characteristics

(1/2) 5 Micron Filter



(3/4) 5 Micron Filter



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Coalescing Filter



- Integral 1/2 or 3/4 ports
- Removes liquid aerosols and sub micron particles
- Oil free air for critical applications, such as air gauging, pneumatic instrumentation and control

Note: To optimise the life of the coalescing element, it is advisable to install a P3XFA pre-filter with a 5 micron element upstream of the coalescing filter.

Options:

P 3 X F A					G		N
BSPP (G)	1	1/2	4	0.01 µm element with DPI standard	D	Combined Manual/Semi Auto Drain	C
NPT *	9	3/4	6			Auto Drain	A

* NPT ports on request
1/2" size only

Port size	Description	Order Code	Flow dm ³ /s *	Max bar	Min temp °C	Max temp °C	Bowl capacity cm ³	Height mm	Width mm	Depth mm	Weight g
1/2	Coalescing Filter 0.01µm, Combined manual/semi auto drain	P3XFA14DGCN	24	16	-10	60	60	217	62	62	320
1/2	Coalescing Filter 0.01µm, auto drain	P3XFA14DGAN	24	16	-10	60	60	217	62	62	320
3/4	Coalescing Filter 0.01µm, Combined manual/semi auto drain	P3XFA16DGCN	24	16	-10	60	60	217	62	62	320
3/4	Coalescing Filter 0.01µm, auto drain	P3XFA16DGAN	24	16	-10	60	60	217	62	62	320

* flow with 6,3 bar inlet pressure and 0,2 pressure drop.

PDE2620TCUK P3X Lite Series

Coalescing Filters

Technical Information

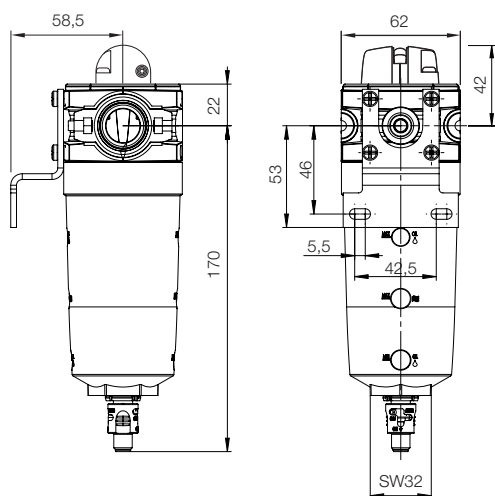
Fluid:	Compressed air
Maximum inlet pressure:	16 bar
Temperature range*:	-10°C to +60°C
Media specifications:	
Coalescing efficiency	(0.3 to 0.6 micron particles): 99.97%
Max. oil carryover (PPM w/w):	0.008 mg/m ³
Typical flow element @ 6,3 bar inlet pressure and 0.2 bar pressure drop:	16 dm ³ /s
Manual / Semi-auto drain: Bowl pressure to close drain	0.8 bar
Auto drain: bowl pressure to close drain Operating range manual override facility	0.8 bar 0.8 to 16 bar
Bowl sump capacity:	60 cm ³

* Air supply must be dry enough to avoid ice formation at temperatures below +2°C

Material Specification

Body:	High tech polymer
Sight glass:	Polypropylene
Filter cover:	ABS
Coalescing element:	Borosilicate & Nano fibres
Top & bottom end cap:	Glass filled nylon - Black
Support cylinders:	Grade 430 stainless steel
Support media:	Polypropylene
Anti re-entrainment barrier:	Polyester
Ensapulate:	Epoxy resin / Hardener
Seals:	Nitrile NBR
Drains:	Manual / Semi-auto: Acetal Automatic: PA / Brass
Differential pressure indicator materials:	
Body:	Acetal
Internal parts:	Acetal
Spring:	Stainless steel
Seals:	Nitrile NBR
Screws:	Steel / zinc plated

Dimensions (mm)

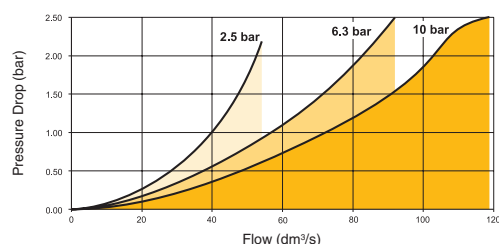


Service kits

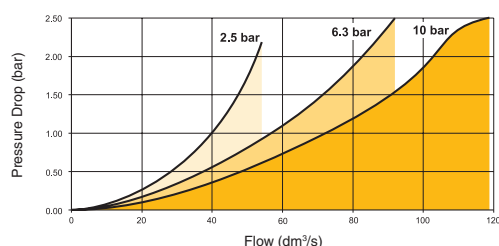
Description	Order code
0.01 micron coalescing element kit	P3XKA00ESC
Bowl kit with combines manual/semi auto drain	P3XKA00BSC
Bowl kit with auto drain	P3XKA00BSA
Differential pressure indicator kit	P3XKA00RQ

Flow characteristics

(1/2) 0.01µm Coalescing Filter Saturated



(3/4) 0.01µm Coalescing Filter Saturated



Adsorber Filter



- Integral 1/2 or 3/4 ports
- Adsorber activated carbon element removes oil vapours and most hydrocarbons

Note: To optimise the life of the adsorber element, it is advisable to install a P3X coalescing 0.01 µm filter upstream of the adsorber filter.

Options:

P 3 X F A					A	G C N
BSPP (G)	1	1/2	4	Adsorber element	A	
NPT *	9	3/4	6			

* NPT ports on request
1/2" size only

Port size	Description	Order Code	Flow dm ³ /s *	Max bar	Min temp °C	Max temp °C	Bowl capacity cm ³	Height mm	Width mm	Depth mm	Weight g
1/2	Adsorber Filter, Manual / Semi-auto drain	P3XFA14AGCN	18	16	-10	60	60	192	62	62	320
3/4	Adsorber Filter, Manual / Semi-auto drain	P3XFA16AGCN	18	16	-10	60	60	192	62	62	320

* flow with 6,3 bar inlet pressure and 0,2 pressure drop.

PDE2620TCUK
P3X Lite Series

Adsorber Filters

Technical Information

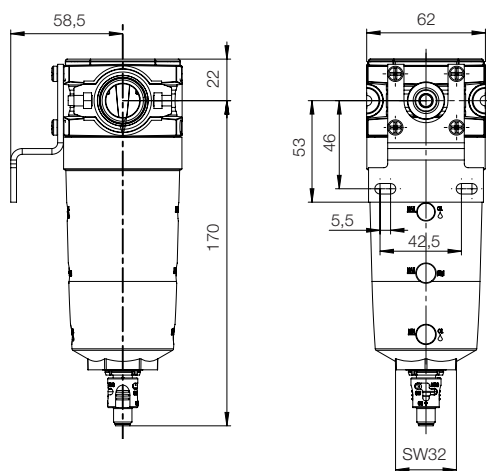
Fluid:	Compressed air
Maximum inlet pressure:	16 bar
Temperature range*:	-10°C to +60°C
Typical flow at 6,3 bar inlet pressure and 0.2 bar pressure drop:	Adsorber 18 dm³/s
Manual / Semi-auto drain:	1/8" connection
to close connection	0.8 bar

* Air supply must be dry enough to avoid ice formation at temperatures below +2°C

Material Specification

Body:	High tech polymer
Sight glass:	Polypropylene
Filter cover:	ABS
Adsorber element:	Activated carbon
Top & bottom endcap:	Glass filled nylon
Support cylinders:	Grade 430 stainless steel
Support media:	100% spun polypropylene
Support sock:	Polyester needlefelt
Encapsulant:	Epoxy resin / Hardener
Seals:	Nitrile NBR
Drain: Manual / Semi-auto	Acetal

Dimensions (mm)

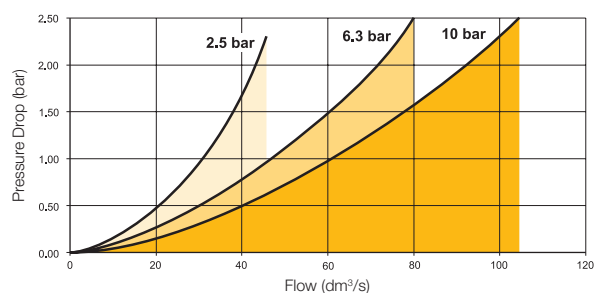


Service kits

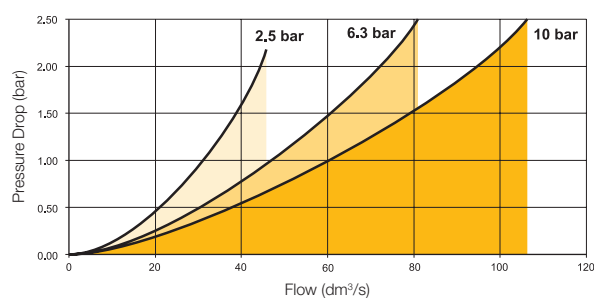
Description	Order code
Adsorber element kit	P3XKA00ESA
Bowl kit with manual drain	P3XKA00BSC

Flow characteristics

(1/2) Adsorber Filter



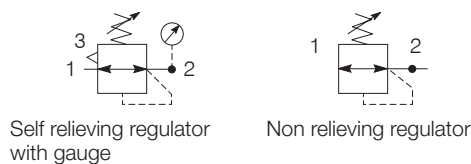
(3/4) Adsorber Filter



Regulator



Symbols



- Integral 1/2 or 3/4 ports
- Secondary pressure ranges 8 & 16 bar
- Rolling diaphragm for extended life
- Secondary aspiration plus rolling diaphragm provides quick response and accurate pressure regulation.
- Optional tamperproof regulator, up to x 3 padlocks
- Relieving & Non-relieving types
- Low temperature -40°C as standard

Options:

P 3 X R A										N
BSPP (G)	1	1/2	4	Relieving	B	Non rise - standard	N	0 - 4 bar No Gauge	L	
NPT *	9	3/4	6	Non-relieving	N	Tamperproof - Lockable	A	0 - 8 bar No Gauge	N	
								0 - 16 bar No Gauge	H	
								0 - 4 bar Gauge	M	
								0 - 8 bar Gauge	G	
								0 - 16 bar Gauge	J	

* NPT ports on request
1/2" size only

Port size	Description	Order Code	Flow dm ³ /s *	Max bar	Min temp °C	Max temp °C	Height mm	Width mm	Depth mm	Weight g
1/2	8 bar relieving	P3XRA14BNNN	122	16	-40	60	150	62	62	360
1/2	8 bar relieving + pressure gauge	P3XRA14BNGN	122	16	-10	60	150	62	95	410
3/4	8 bar relieving	P3XRA16BNNN	134	16	-40	60	150	62	62	360
3/4	8 bar relieving + pressure gauge	P3XRA16BNGN	134	16	-10	60	150	62	95	410
1/2	8 bar relieving with tamperproof facility	P3XRA14BANN	122	16	-40	60	158	62	62	360
1/2	8 bar relieving with tamperproof facility + pressure gauge	P3XRA14BAGN	122	16	-10	60	158	62	95	410
3/4	8 bar relieving with tamperproof facility	P3XRA16BANN	134	16	-40	60	158	62	62	360
3/4	8 bar relieving with tamperproof facility + pressure gauge	P3XRA16BAGN	134	16	-10	60	158	62	95	410

* flow with 10 bar inlet pressure, 6,3 bar set pressure and 1 bar pressure drop.

Tamperproof regulator will require lock kit (on opposite page) to lock regulator.

PDE2620TCUK P3X Lite Series

Regulators

Technical Information

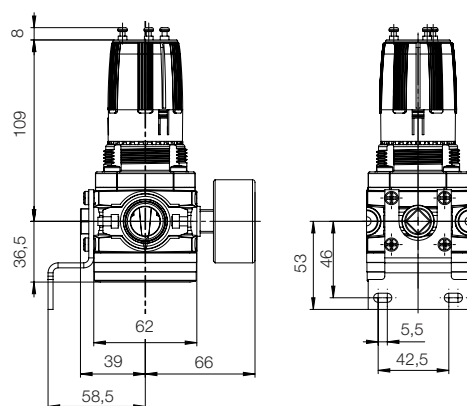
Fluid:	Compressed air
Maximum inlet pressure:	16 bar
Temperature range*:	-40°C to +60°C
Typical flow with 10 bar inlet pressure, 6.3 bar set pressure and 1 bar pressure drop:	1/2" 122 dm ³ /s 3/4" 134 dm ³ /s
Gauge port (x 2):	1/4"

* Air supply must be dry enough to avoid ice formation at temperatures below +2°C

Material Specification

Body:	High tech polymer
Bonnet:	High tech polymer
Regulator cover:	ABS
Control Knob:	Polyamide
Valve:	Brass / Nitrile
Seals:	Nitrile NBR
Screws:	Stainless steel

Dimensions (mm)



Service kits

Description	Order code
Wall bracket - Stainless steel	P3XKA00MW
Panel mounting nut	P3XKA00MM
Key lock	P3XKA00AS
Diaphragm kit (relieving type)	P3XKA00RR
Diaphragm kit (non-relieving type)	P3XKA00RN

Lockable Tamperproof Kit (up to x 3 padlocks)

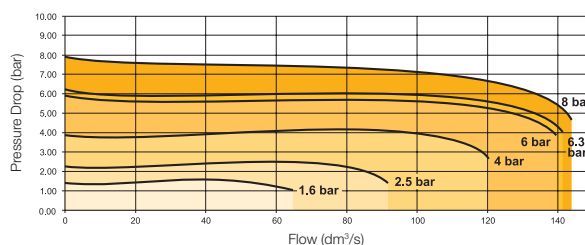
This facilitates the tamperproofing of the Regulator and Filter-Regulator units. (On request)



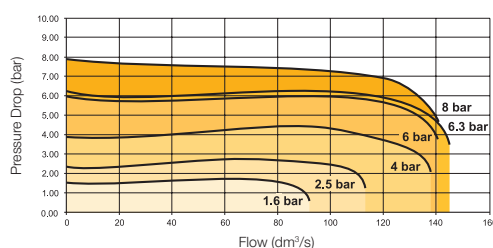
Order code
1 Padlock each
P3XKA00AS

Flow characteristics

Regulation characteristics: (1/2)



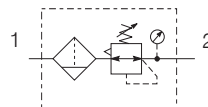
Regulation characteristics: (3/4)



Filter-Regulator

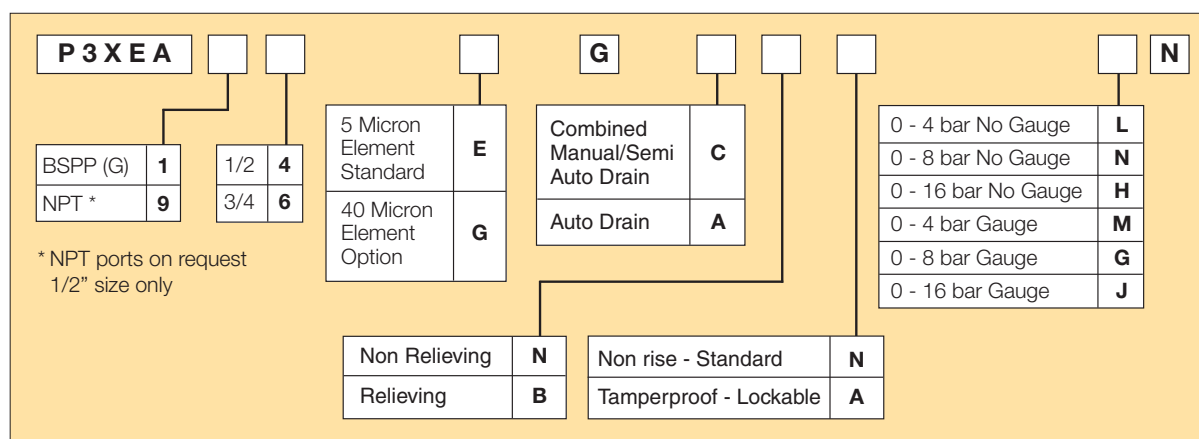


Symbols



- 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.
- Low temperature -40°C with combined manual/semi - auto drain as standard

Options:



Port size	Description	Order Code	Flow dm ³ /s *	Max bar	Min temp °C	Max temp °C	Bowl capacity cm ³	Height mm	Width mm	Depth mm	Weight g
1/2	8 bar, relieving, Combined manual/semi auto drain	P3XEA14EGCBNNN	111	16	-40	60	60	280	62	62	500
1/2	8 bar relieving, auto drain	P3XEA14EGABNNN	111	16	-10	60	60	280	62	62	500
1/2	8 bar, relieving, gauge Combined manual/semi auto drain	P3XEA14EGCBNGN	111	16	-10	60	60	280	62	62	550
1/2	8 bar relieving, gauge, auto drain	P3XEA14EGABNGN	111	16	-10	60	60	280	62	62	550
3/4	8 bar, relieving, Combined manual/semi auto drain	P3XEA16EGCBNNN	113	16	-40	60	60	280	62	62	500
3/4	8 bar relieving, auto drain	P3XEA16EGABNNN	113	16	-10	60	60	280	62	62	500
3/4	8 bar, relieving, gauge Combined manual/semi auto drain	P3XEA16EGCBNGN	113	16	-10	60	60	280	62	62	550
3/4	8 bar relieving, gauge, auto drain	P3XEA16EGABNGN	113	16	-10	60	60	280	62	62	550

* flow with 10 bar inlet pressure, 6,3 bar set pressure and 1 bar pressure drop.

PDE2620TCUK P3X Lite Series

Filter-Regulators

Technical Information

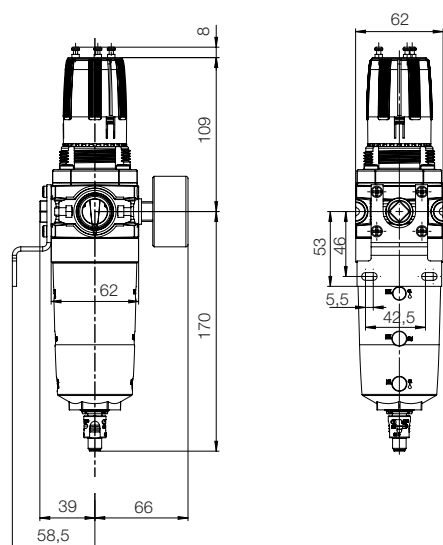
Fluid:	Compressed air
Maximum inlet pressure:	16 bar
Temperature range*:	
Auto drain:	-10°C to +60°C
Combined drain:	-40°C to +60°C
Particle removal:	5 micron and 40 micron
Air quality:	Within ISO 8573-1 : 1991 Class 3 and 5 (particulates) Within ISO 8573-1 : 2001 Class 6 and 7 (particulates)
Typical flow with 10 bar inlet pressure 6,3 bar set pressure and 1 bar pressure drop 106 dm ³ /s	
Manual / Semi-auto drain: pressure to close drain	0.8 bar
Auto drain: bowl pressure to close drain	0.8 bar
Operating range	0.8 to 16 bar
manual override facility	
Bowl sump capacity:	60 cm ³
Gauge ports (x 2):	1/4"

* Air supply must be dry enough to avoid ice formation at temperatures below +2°C

Material Specification

Body:	High tech polymer
Sight glass:	Polypropylene
Body cover:	ABS
Element:	Sintered P.E.
Seals:	Nitrile NBR
Drains:	Manual / Semi-auto: Acetal Automatic: PA / Brass
Bonnet:	High tech polymer
Control knob:	Polyamide
Valve:	Brass / Nitrile
Screws:	Stainless steel

Dimensions (mm)

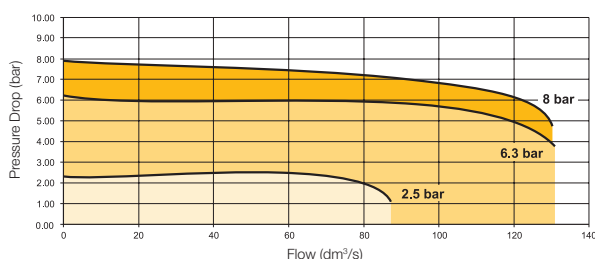


Service kits

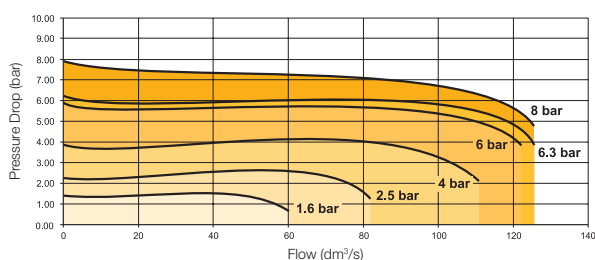
Description	Order code
5 micron element kit	P3XKA00ESE
40 micron element kit	P3XKA00ESG
Bowl kit with combined manual/semi auto drain	P3XKA00BSC
Bowl kit with auto drain	P3XKA00BSA
Tamper-proof knob kit (key/lock)	P3XKA00AS
Diaphragm kit (relieving type)	P3XKA00RR
Diaphragm kit (non-relieving type)	P3XKA00RN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

Flow characteristics

(1/2) 5 Micron Filter/Regulator



(3/4) 5 Micron Filter/Regulator

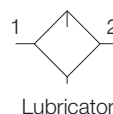


Parker Hannifin Corporation
Pneumatic Division - Europe

Lubricator



Symbols



- Integral 1/2 or 3/4 ports
- Proportional oil delivery over a wide range of air flows.
- No adjustment necessary (self adjusting)
- Fill from top under system pressure

Options:

P 3 X L A					G N N	
* NPT ports on request 1/2" size only		BSPP (G)	1	1/2	4	5 mg/m ³ S ¹⁾
		NPT *	9	3/4	6	50 mg/m ³ P ²⁾

Port size	Description	Order Code	Flow dm ³ /s *	Max bar	Min temp °C	Max temp °C	Bowl capacity cm ³	Height mm	Width mm	Depth mm	Weight g
1/2	Oil mist, fill under pressure (50mg/m ³)	P3XLA14PGNN	78	16	-10	60	90	195	62	62	300
3/4	Oil mist, fill under pressure (50mg/m ³)	P3XLA16PGNN	78	16	-10	60	90	195	62	62	300
1/2	Oil mist, fill under pressure (5mg/m ³)	P3XLA14SGNN	78	16	-10	60	90	195	62	62	300
3/4	Oil mist, fill under pressure (5mg/m ³)	P3XLA16SGNN	78	16	-10	60	90	195	62	62	300

* Flow with 6,3 bar inlet pressure and 0,5 pressure drop.

¹⁾ Best for pre-lubricated pneumatic components (e.g. rodless cylinder, actuators, valves etc.)

²⁾ Best for components which require effective lubrication (e.g. vane driven pneumatic motors / air tools etc.)

PDE2620TCUK
P3X Lite Series

Lubricators

Technical Information

Fluid:	Compressed air
Maximum inlet pressure:	16 bar
Temperature range*:	-10°C to +60°C

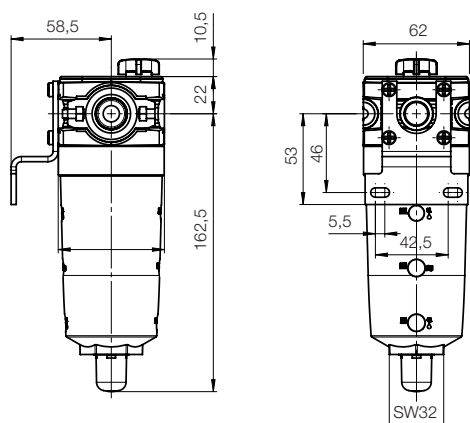
* Air supply must be dry enough to avoid ice formation at temperatures below +2° C
Low flow start point (lubrication pick-up): at 6.3bar inlet pressure 7 dm³/s
Typical flow with 6.3bar inlet pressure and 0.5 bar pressure drop: 78 dm³/s

Note : Fill lubricant from top only

Material Specification

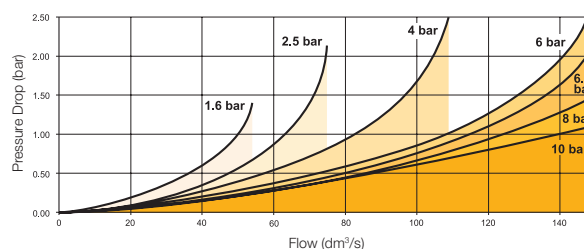
Body:	High tech polymer
Bowl sight glass:	Polypropylene
Sight dome:	PA (Nylon)
Lubricator cover:	ABS
Seals:	Nitrile NBR

Dimensions (mm)

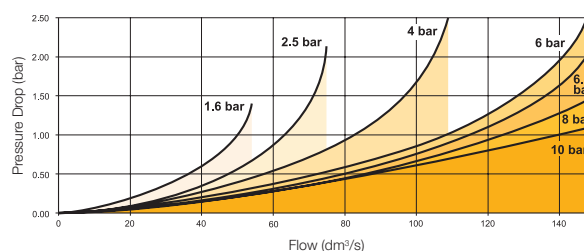


Flow characteristics

(1/2) Lubricator



(3/4) Lubricator



Service kits

Description	Order code
Bowl kit	P3XKA00BSN
Refill plug	P3XKA00PL
Oil VG15 - 100ml	P3XKA00PPA

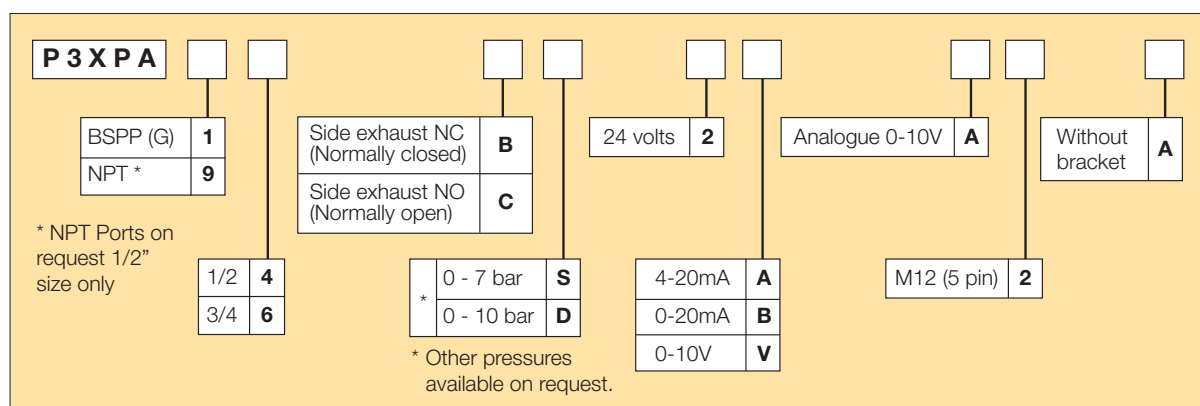


Proportional Pressure Regulator



- Integral 1/2" or 3/4" ports (BSPP & NPT)
- Accurate output pressure
- Very fast response times
- Robust but lightweight design.

Options:



Popular options:

Port size	Description	Order Code	Control signal	Output signal	Output pressure	Weight kg
1/2	Normally closed	P3XPA14BD2VA2A	0 - 10 V	0 - 10 V	0 - 10 bar	0.75
3/4	Normally closed	P3XPA16BD2VA2A	0 - 10 V	0 - 10 V	0 - 10 bar	0.75

PDE2620TCUK
P3X Lite Series

Proportional Pressure Regulators

Technical Information

Operating pressure range	P ¹ min	1 bar
Inlet pressure ¹⁾	P ¹ max	16 bar
Operating pressure range	P ² min	0.2 bar
Outlet pressure	P ² max	10 bar
Operating Temperature		0°C to +50°C
Maximum Flow ²⁾	Q _n	dm ³ /s 160
Hysteresis	P ² max	< 1%
Repeatability	P ² max	< 0.5%
Sensitivity	P ² max	< 0.5%
Linearity	P ² max	< 1%
Nominal voltage	U _n V DC	24V = ±10%
Residual ripple		10%
Power consumption	I _{Bmax}	0.15 A
Set value input	U _w V	0 - 10
	I mA	0 - 20
		mA 4 - 20
Input resistance	R _E	243 K Ω
Actual valve output	U _x	0 - 10 V
Output current	I _{Amax}	10 mA
Degree of protection		IP65 to DIN 40050, EN 60529

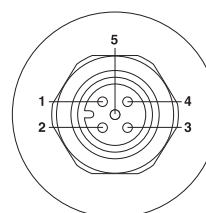
¹⁾ $p_1 > p_2 + 10\% p_2$

²⁾ at $p_1 - 10$ bar to $p_2 - 6.3$ bar

Material Specification

Body:	High tech polymer
Booster valve:	Brass / Nitrile
Standard seals:	NBR
Body cover screws:	Steel / zinc plated
Body Cover:	Aluminium
Pilot piston:	Aluminium / Nitrile
Exhaust piston:	Brass / Nitrile
Electronic cover:	Zinc

Connection diagram



Connector M12 x 1

Pin 1:
Power supply
Plus +24 V DC ± 10%
0.15 A
Residual ripple 10%

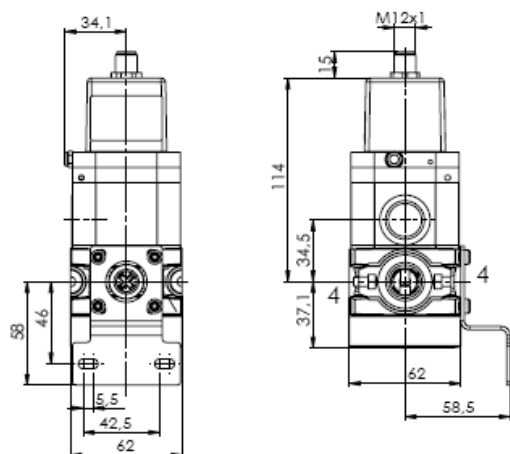
Pin 2:
Power supply 0 V
Reference and mass capacity
for set value and actual value

Pin 3:
Set value input
0 - 10 V

Pin 4:
0 V set signal
(connected on board
with pin 2 as standard)

Pin 5:
Analogue actual value output
0 - 10 V
Tolerance ± 0.15 V

Dimensions (mm)

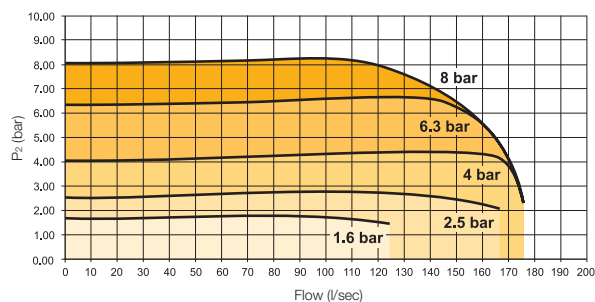


* Two opposite gauge ports G1/4, plug screw mounted

** Connection for 5-pin plug M12 x 1

*** Exhaust port 1/2"

Flow characteristics



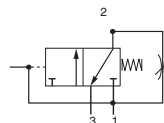
PDE2620TCUK
P3X Lite Series

Dump Valve & Combined Soft Start Dump

Dump Valve & Combined Soft Start Dump Valve



Symbols



- Modular design with 1/2" & 3/4" integral ports (BSPP or NPT)
- Provides for the safe introduction of pressure
- Automatically dumps downstream pressure on the loss of pilot signal
- Adjustable slow start
- Solenoid or air pilot options
- High flow & exhaust capability

P3X Series Combined Soft Start/Dump Valves, provide for the safe introduction of pressure to machines or systems. Soft Start/Dump Valves when set, allow the pressure to gradually build to the set point before fully opening to deliver full flow at line pressure.

The controlled introduction of pressure can be an important safety factor and prevent damage to tooling when air pressure is introduced at machine or system start up.

Options:

P 3 X		A				N			Solenoid type only
Combined soft start dump valve	T	External air pilot	P			None (operator is fitted to valve)	0	Solenoid / coil not fitted	000
Dump valve	D	Solenoid pilot	S			30mm CNOMO coil (Form connection)	A	24V DC	2CN
BSPP (G)	1	1/2	4	30mm operator	C	22mm coil (Form connection)	B		
NPT *	9	3/4	6	Threaded air pilot	P	30mm CNOMO coil (M12 connection)	D		
						22mm coil (M12 connection)	E		

* NPT Ports on request 1/2" size only

Combined soft start dump valve

Port size	Description	Order Code	Flow dm ³ /s	Max bar	Min temp °C	Max temp °C	Height mm	Width mm	Depth mm	Weight kg
1/2	Solenoid operated (not included)	P3XTA14SCN0000	80	16	-10	60	144	62	62	0.75
1/2	24VDC 22mm coil	P3XTA14SCNB2CN	80	10	-10	60	174	88	62	0.75
1/2	24VDC 30mm coil	P3XTA14SCNA2CN	80	16	-10	60	174	88	62	0.75
1/2	Air pilot operated	P3XTA14PPN	80	16	-10	60	127.5	62	62	0.75
3/4	Solenoid operated (not included)	P3XTA16SCN0000	88	16	-10	60	144	62	62	0.75
3/4	24VDC 22mm coil	P3XTA16SCNB2CN	88	10	-10	60	174	88	62	0.75
3/4	24VDC 30mm coil	P3XTA16SCNA2CN	88	16	-10	60	174	88	62	0.75
3/4	Air pilot operated	P3XTA16PPN	88	16	-10	60	127.5	62	62	0.75



PDE2620TCUK P3X Lite Series

Dump Valve & Combined Soft Start Dump

Technical Information

Fluid:	Compressed air
Maximum pressure Solenoid operated 22mm coil:	10 bar
Maximum pressure Solenoid operated 30mm coil:	16 bar
Minimum operating pressure:	2 bar
Temperature range* Solenoid operated:	-10° to + 60° C
Temperature range* Air Pilot operated:	-10° to + 60° C
Air Pilot port:	1/8"
Exhaust port:	1/2"
Gauge port:	1/4"
Typical flow with 6.3bar inlet pressure and 1 bar pressure drop:	1/2" 80 dm³/s
	3/4" 80 dm³/s

* Air supply must be dry enough to avoid ice formation at temperatures below +2°C
Snap pressure: Full flow when downstream pressure reaches 50% of the inlet pressure

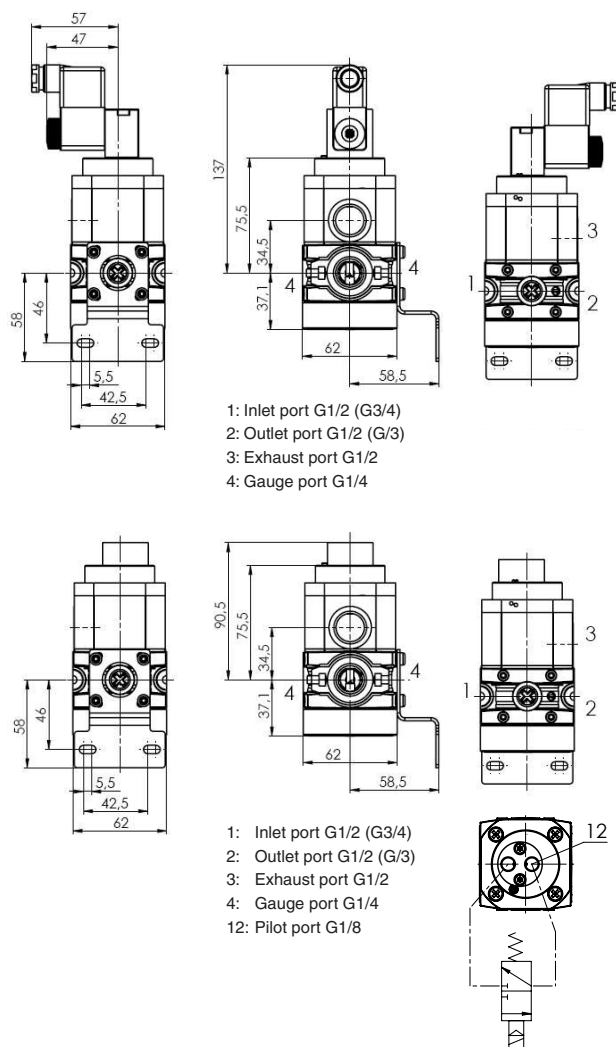
Material Specification

Body:	Aluminium
Body cover:	ABS
Valve:	Brass / NBR composite
Pilot valve booster:	Aluminium
Seals:	Nitrile NBR

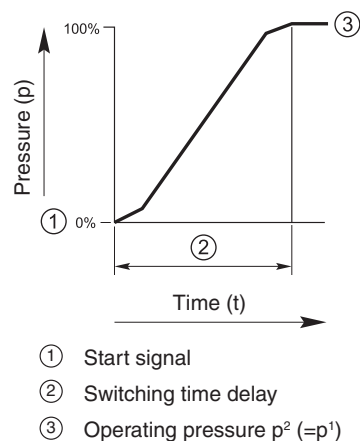
Solenoid coils

For Solenoid coil information refer to page 25

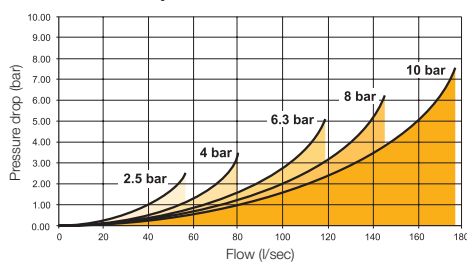
Dimensions (mm)



Flow characteristics



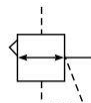
Soft Start Dump Valve 24v 1/2" Port



Pilot Operated Regulator



Symbols



- Integral G1/2" or G3/4" ports
- G1/8" air pilot signal port
- Pilot controlled regulators can be mounted "out of reach" with pilot regulator installed in a convenient location
- Constant bleed control for accurate pressure control
- Balanced poppet provides quick response
- High flow
- Quick exhaust and high relief capacity through full 1/2" ported orifice

Options:

P 3 X R A						B P P N	
BSPP (G)	1			1/2	4		
NPT *	9			3/4	6		

* NPT ports on request
1/2" size only

Port size	Description	Order Code	Flow dm ³ /s	Max bar	Min temp °C	Max temp °C	Height mm	Width mm	Depth mm	Weight kg
1/2	Pilot operated regulator	P3XRA14BPPN	122	16	-40	60	150	62	62	360
3/4	Pilot operated regulator	P3XRA16BPPN	134	16	-40	60	150	62	62	360

* flow with 10 bar inlet pressure, 6,3 bar set pressure and 1 bar pressure drop.

PDE2620TCUK P3X Lite Series

Pilot Operated Regulators

Technical Information

Fluid:	Compressed air
Maximum inlet pressure:	16 bar
Temperature range*:	-40°C to +60°C
Typical flow with 10 bar inlet pressure, 6.3 bar set pressure and 1 bar pressure drop:	1/2" 122 dm ³ /s 3/4" 134 dm ³ /s
Gauge port (x 2):	1/4"
Pilot port:	1/8"

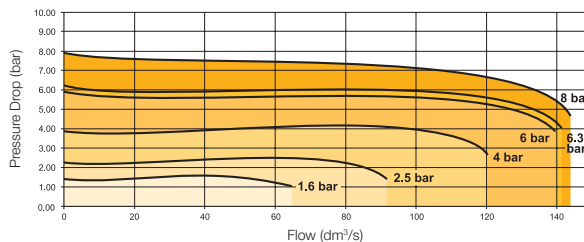
* Air supply must be dry enough to avoid ice formation at temperatures below +2°C

Material Specification

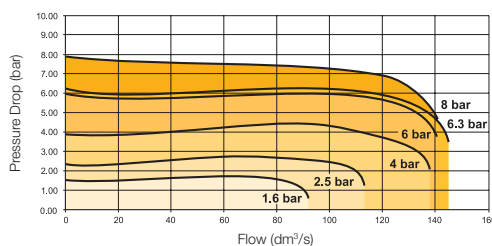
Body:	High tech polymer
Body top:	Aluminium
Valve:	Brass / Nitrile
Seals:	Nitrile NBR
Screws:	Stainless steel

Flow characteristics

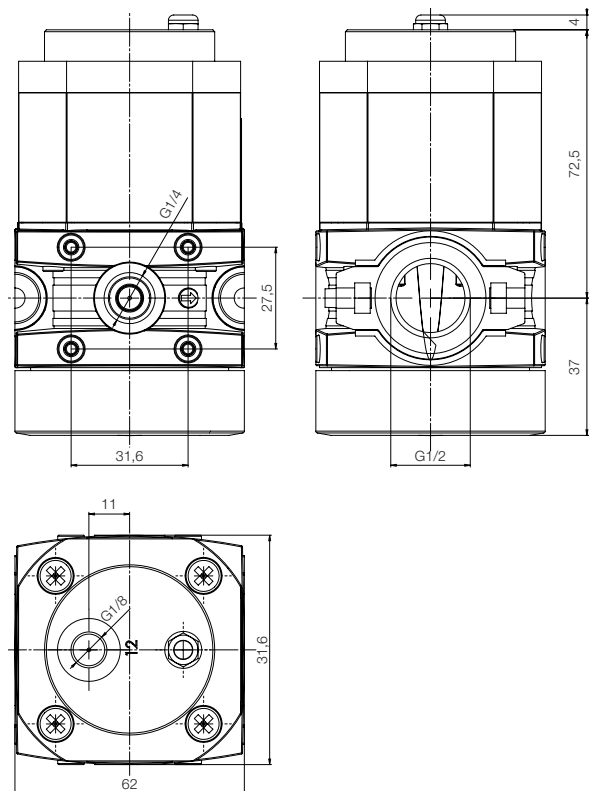
Regulation characteristics: (1/2)



Regulation characteristics: (3/4)



Dimensions (mm)



Service kits

Description	Order code
Wall bracket - Stainless steel	P3XKA00MW

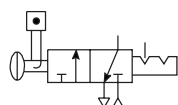


PDE2620TCUK
P3X Lite Series

Modular Ball Valves

Modular Slide Valve

Symbol



- Padlockable.
- When the inlet pressure is turned off the downstream vents through the exhaust port.

P3X Series Slide Valves provide shut off line pressure to prevent unauthorised adjustment.

Options:

P 3 X	VA			LSN
BSPP (G)	1	G1/2	4	
NPT *	9	G3/4	6	

* NPT ports on request (1/2" size only)

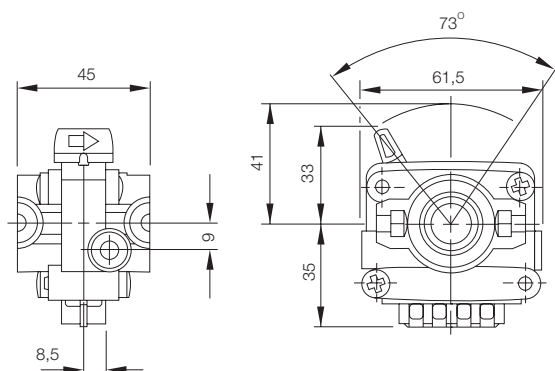
Technical Information

Operating Temperature:	-10°C to +60°C
Maximum Supply Pressure:	16 bar
Weight (g):	1/2 300g
	3/4 300g

Material specification:

Body:	High tech polymer
Handle:	Polyamide
Seals:	Nitrile NBR
Exhaust muffler:	Sintered bronze

Dimensions (mm)



Modular Manifold



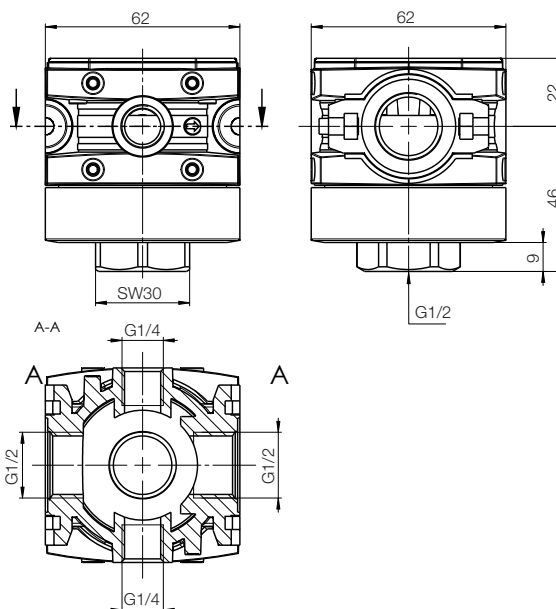
P3X Series Manifolds, provide up to 2 extra outlet ports, they may be assembled at any position in a combination e.g. before the lubricator to provide oil free take off or at the end of a combination to provide extra outlet ports.

Description	Order code BSPP	Order code NPT	Weight (g)
G1/2"	P3XMA1V0N	P3XMA9V0N	170
G3/4"	P3XMA160N		170

Material specification:

Body:	High tech polymer
Manifold Cover:	ABS

Dimensions (mm)



Inlet port	Bottom	Front and Back
1/2	1/2"	1/4"
3/4	3/4"	1/4"



Solenoid coils with Din A or Industrial B connection

Voltage	30mm x 30mm Order code DIN A Standard	Weight (Kg)	22mm x 30mm Order code Industrial B standard	Weight (Kg)
Direct current				
12V DC	P2FCA445	0.105	P2FCB445	0.093
24V DC	P2FCA449	0.105	P2FCB449	0.093
48V DC	P2FCA453*	0.105	P2FCB451	0.093
Alternative current				
12V 50/60Hz	P2FCA440	0.105	P2FCB440	0.093
24V 50/60Hz	P2FCA442	0.105	P2FCB442	0.093
48V 50/60Hz	P2FCA469[#]	0.105		
110V 50Hz, 120V 60Hz	P2FCA453	0.105	P2FCB453	0.093
230V 50Hz, 230V 60Hz	P2FCA457	0.105	P2FCB457	0.093

* P2FCA453 is compatible with 110 V AC and 48 V DC

P2FCA469 is 24 V DC 6.8W or 48 V 50Hz 9.9 VA

Solenoid coils with M12 connection

Voltage	Order code Form A 30 x 30	Weight (Kg)	Order code Form B 22 x 30	Weight (Kg)
Direct current				
24V DC	P2FC6419	0.065	P2FC7419	0.065

PDE2620TCUK

P3X Lite Series

Accessories

Accessories

Description		Connection	Weight (g)	Order code	
Panel mounting nut			10	P3XKA00MM	
Stainless steel - Wall bracket kit			80	P3XKA00MW	
P3X connecting kit			10	P3XKA00CB	
Lubricator Oil	VG15 : ISO 3448 - 100ml		100	P3XKA00PPA	
Pressure gauge	0 to 10 bar 0 to 16 bar	1/4" 1/4"	60 60	KG8012-00 KG8013-00	
Connector O-ring kit	Qty: 5			P3XKA04CY	
Regulator & Filter/Regulator - Key Lock Kit			0.05	P3XKA00AS	



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P3X Lite Series



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P3X Lite Series



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