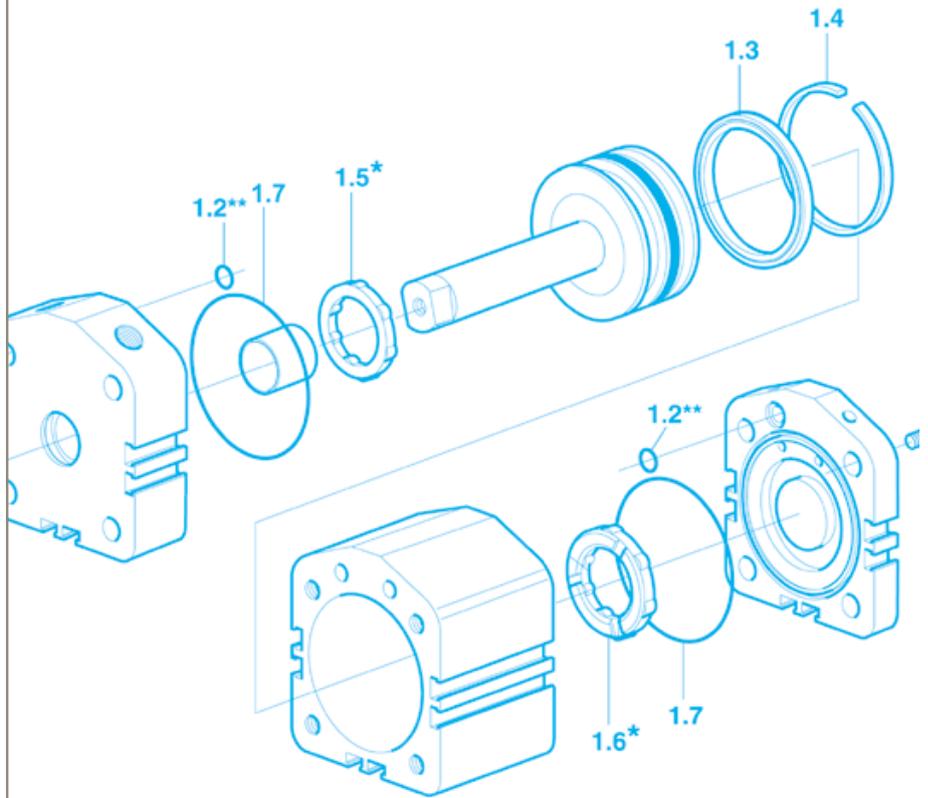




aerospace  
 climate control  
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 filtration  
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**pneumatics**  
 process control  
 sealing & shielding



# Pneumatic Products Spare Parts

PDE2600SPUK



ENGINEERING YOUR SUCCESS.

**PDE2600SPUK**  
**Pneumatic Product Spares Catalogue**

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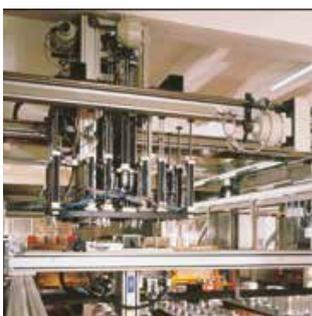
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# Actuators

### P1D ISO Cylinders

#### Seal kits

- Complete seal kits consisting of:
- Piston seals
- Cushioning seals
- Combined piston rod seal and scraper
- O-rings



#### P1D Cylinder version, single piston rod, piston made in plastic

Cyl. bore mm	Standard temperature	Standard temperature with scraper / rod seal made in FPM	Standard temperature with HDPE sealing	Standard temperature with dynamic rod lock
32	<b>P1D-6KRN</b>	<b>P1D-6KRV</b>	<b>P1D-6KRD</b>	<b>P1D-6KRNL</b>
40	<b>P1D-6LRN</b>	<b>P1D-6LRV</b>	<b>P1D-6LRD</b>	<b>P1D-6LRNL</b>
50	<b>P1D-6MRN</b>	<b>P1D-6MRV</b>	<b>P1D-6MRD</b>	<b>P1D-6MRNL</b>
63	<b>P1D-6NRN</b>	<b>P1D-6NRV</b>	<b>P1D-6NRD</b>	<b>P1D-6NRNL</b>
80	<b>P1D-6PRN</b>	<b>P1D-6PRV</b>	<b>P1D-6PRD</b>	<b>P1D-6PRNL</b>
100	<b>P1D-6QRN</b>	<b>P1D-6QRV</b>	<b>P1D-6QRD</b>	<b>P1D-6QRNL</b>
125	<b>P1D-6RRN</b>	<b>P1D-6RRV</b>	<b>P1D-6RRD</b>	<b>P1D-6RRNL</b>

#### P1D Cylinder version, through piston rod, piston made in plastic

Cyl. bore mm	Standard temperature	Standard temperature with scraper / rod seal made in FPM	Standard temperature with HDPE sealing	Standard temperature with dynamic rod lock
32	<b>P1D-6KRNF</b>	<b>On request</b>	<b>On request</b>	<b>On request</b>
40	<b>P1D-6LRNF</b>	<b>On request</b>	<b>On request</b>	<b>On request</b>
50	<b>P1D-6MRNF</b>	<b>On request</b>	<b>On request</b>	<b>On request</b>
63	<b>P1D-6NRNF</b>	<b>On request</b>	<b>On request</b>	<b>On request</b>
80	<b>P1D-6PRNF</b>	<b>On request</b>	<b>On request</b>	<b>On request</b>
100	<b>P1D-6QRNF</b>	<b>On request</b>	<b>On request</b>	<b>On request</b>
125	<b>P1D-6RRNF</b>	<b>On request</b>	<b>On request</b>	<b>On request</b>

As the P1D Series was also available for high (ie MF) and low (ie ML) temperature ranges, hydraulic (ie MJ) version and with metallic scraper (ie QC) options, here with are the part numbers for the maintenance for these cylinders.

**Important:** it is not possible to convert a P1D built for standard temperature to a high, low temp or hydraulic version because end caps and piston are not the same.

**Note:** These options are now available in the P1D-X Series only.

#### P1D Cylinder version, single piston rod

Cyl. bore mm	Standard temperature with metallic scraper	Low temperature	High temperature	Hydraulic version
32	<b>P1D-6KRQ</b>	<b>P1D-6KRLX</b>	<b>P1D-6KRFX</b>	<b>P1D-6KRHX</b>
40	<b>P1D-6LRQ</b>	<b>P1D-6LRL</b>	<b>P1D-6LRF</b>	<b>P1D-6LRH</b>
50	<b>P1D-6MRQ</b>	<b>P1D-6MRLX</b>	<b>P1D-6MRFX</b>	<b>P1D-6MRHX</b>
63	<b>P1D-6NRQ</b>	<b>P1D-6NRL</b>	<b>P1D-6NRF</b>	<b>P1D-6NRH</b>
80	<b>P1D-6PRQ</b>	<b>P1D-6PRL</b>	<b>P1D-6PRF</b>	<b>P1D-6PRH</b>
100	<b>P1D-6QRQ</b>	<b>P1D-6QRL</b>	<b>P1D-6QRF</b>	<b>P1D-6QRH</b>
125	<b>P1D-6RRQ</b>	<b>P1D-6RRL</b>	<b>P1D-6RRF</b>	<b>P1D-6RRH</b>

#### Greases



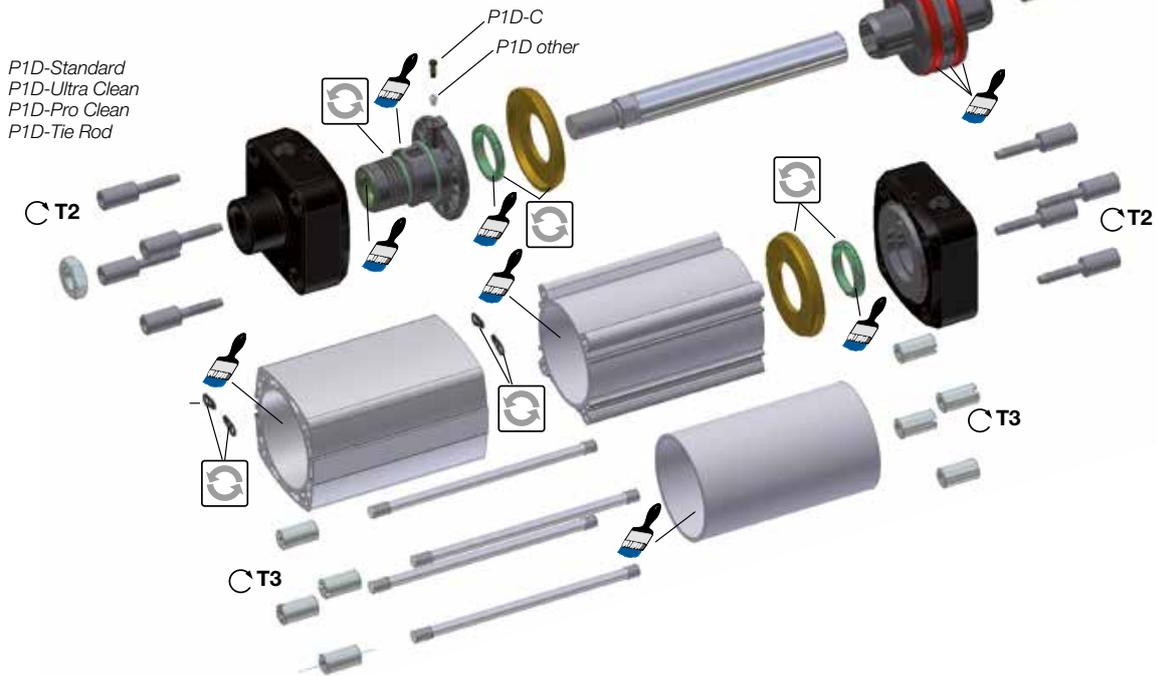
Standard	30g	<b>9127394541</b>
High temperature	30g	<b>9127394521</b>
Low temperature	30g	<b>9127394541</b>

**P1D ISO Cylinders**

- = Included in seal kit
- = Screwdriver head
- = Insexgrepp

- = Tightening torque
- = Lubricated with grease
- = Locking fluid

Loctite 270 or  
Loctite 2701 locking  
fluid must be used



Cyl.-dia mm	Plastic piston T1 Nm	Alu. piston T1 Nm	NV mm	T2 Nm	NV mm	T3 Nm	NV mm	NV mm
32	4,5	15	6	8	6	6	6	
40	11	30	8	8	6	6	6	
50	20	40	10	20	8	11	8	
63	20	40	10	20	8	11	8	
80	40	120	14	20	6	20		3x16
100	120	120	14	20	6	20		3x16
125	120	120	14	70	8	40		4x18

### P1D-B ISO Cylinders

- Complete seal kits consisting of:
- Piston seals
- Cushioning seals
- Piston rod seal
- O-rings
- Piston rod scraper seal



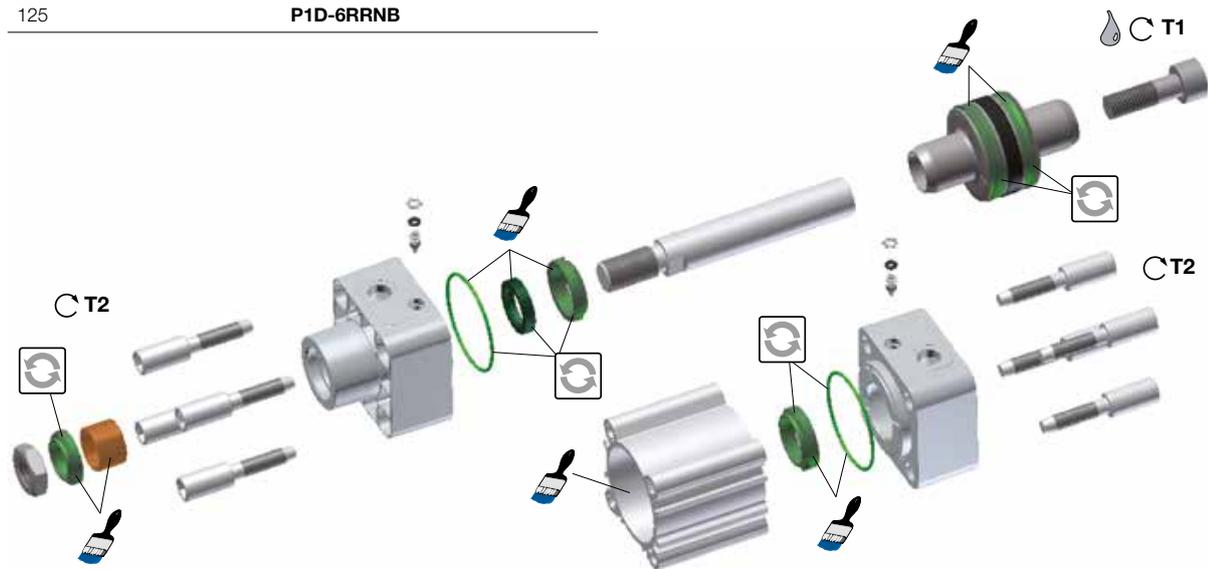
#### Seal kits

Bore mm	Standard temperature
32	<b>P1D-6KRNB</b>
40	<b>P1D-6LRNB</b>
50	<b>P1D-6MRNB</b>
63	<b>P1D-6NRNB</b>
80	<b>P1D-6PRNB</b>
100	<b>P1D-6QRNB</b>
125	<b>P1D-6RRNB</b>

#### Grease



Standard	30g	<b>9127394541</b>
----------	-----	-------------------



= Included in seal kit

= Lubricated with grease

= Socket head

= Locking fluid

= Tightening torque

*Loctite 270 or Loctite 2701 locking fluid must be used*

Bore mm	Plastic piston T1 Nm	NV mm	T2 Nm	NV mm
32	4,5	6	8	6
40	11	8	8	6
50	20	10	20	8
63	20	10	20	8
80	40	14	20	6
100	120	14	20	6
125	120	14	70	8

### P1D-X ISO Cylinders

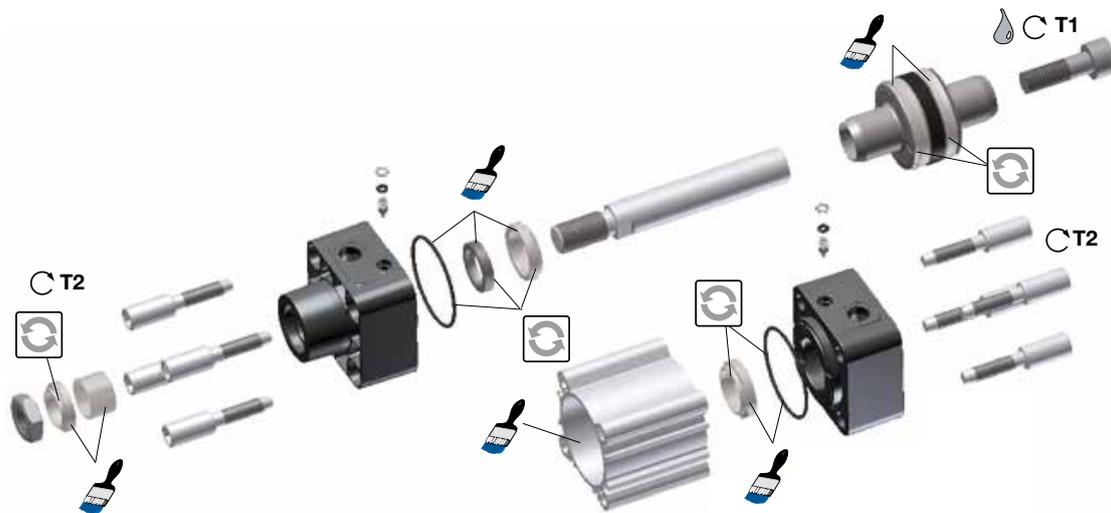
- Complete seal kits consisting of:
  - Piston seals
  - Cushioning seals
  - Piston rod seal
  - O-rings
  - Piston rod scraper seal



Cyl.bore mm	P1D cylinder version				
	High temp.	Low temp.	Standard temp. Aluminium piston	Metal scraper	Hydraulic version
32	<b>P1D-6KRFX</b>	<b>P1D-6KRLX</b>	<b>P1D-6KRNB</b>	<b>P1D-6KRQX</b>	<b>P1D-6KRHX</b>
40	<b>P1D-6LRF</b>	<b>P1D-6LRL</b>	<b>P1D-6LRNB</b>	<b>P1D-6LRQX</b>	<b>P1D-6LRHX</b>
50	<b>P1D-6MRFX</b>	<b>P1D-6MRLX</b>	<b>P1D-6MRNB</b>	<b>P1D-6MRQX</b>	<b>P1D-6MRHX</b>
63	<b>P1D-6NRF</b>	<b>P1D-6NRL</b>	<b>P1D-6NRNB</b>	<b>P1D-6NRQX</b>	<b>P1D-6NRHX</b>
80	<b>P1D-6PRF</b>	<b>P1D-6PRL</b>	<b>P1D-6PRNB</b>	<b>P1D-6PRQX</b>	<b>P1D-6PRHX</b>
100	<b>P1D-6QRF</b>	<b>P1D-6QRL</b>	<b>P1D-6QRNB</b>	<b>P1D-6QRQX</b>	<b>P1D-6QRHX</b>
125	<b>P1D-6RRF</b>	<b>P1D-6RRL</b>	<b>P1D-6RRNB</b>	<b>P1D-6RRQX</b>	<b>P1D-6RRHX</b>

	Standard temperature	30g	<b>9127394541</b>
	High temperature	30g	<b>9127394521</b>
	Low temperature	30g	<b>9127394541</b>

### Seal kits



- = Included in seal kit
- = Socket head
- = Tightening torque
- Lubricated with grease
- Locking fluid
- Loctite 270 or Loctite 2701 locking fluid must be used*

Cyl.- Dia. mm	Aluminium Piston T1 Nm	AF		NV		NV
		mm	Nm	mm	mm	
32	15	6	8	6	6	
40	30	8	8	6	6	
50	40	10	20	8	8	
63	40	10	20	8	8	
80	120	14	20	6		3x16
100	120	14	20	6		3x16
125	120	14	70	8		4x18

### P1D-T ISO Cylinders

- Complete seal kits consisting of:
- Piston complete
- Cushioning seals
- Piston rod bearing
- Piston rod scraper seal
- Piston rod seal
- O-rings

#### Seal Kits

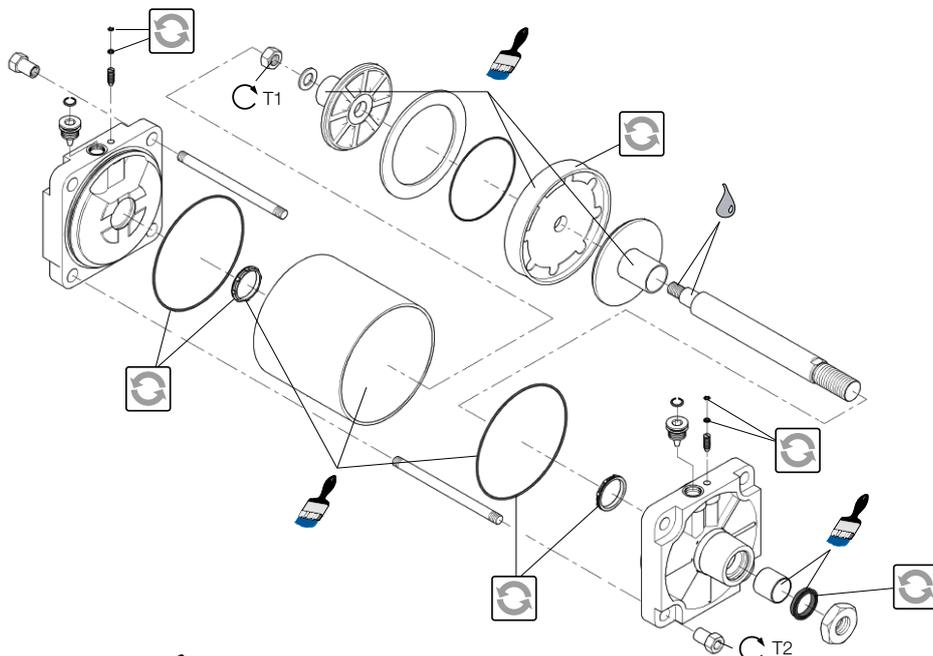
Cyl.bore mm	Standard	High Temp. Only for cylinders with PN P1D-Txxx/G...
160	<b>PD23013</b>	<b>P1D-6S/G90010</b>
200	<b>PD25006</b>	<b>P1D-6T/G90011</b>
250	<b>PD25872</b>	<b>P1D-6V/G90012</b>

**Note:** High temp seal kits for cylinders with PN P1D-TxxxMF-stroke are no longer available.

#### P1D-T Optional cylinder versions

Cyl.bore mm	Through rod Standard temperature
160	<b>P1D-6SRNF</b>
200	<b>P1D-6TRNF</b>
250	<b>P1D-6VRNF</b>

#### Seal kits for bores Ø160 - Ø250 mm



- = Included in seal kit
- = Lubricated with grease
- = Socket head
- = Locking fluid
- = Tightening torque
- = Nut A/F

Loctite LT638 locking fluid must be used



#### Grease



Standard	4g tube	<b>KL8220</b>
High temperature	4g tube	<b>KL8220</b>

Cyl.-dia mm	Plastic piston T1 Nm	NV mm	T2 Nm	NV mm
160	100	30	85	27
200	100	30	95	27
250	120	36	140	41

### P1D-T ISO Cylinders

- Complete seal kits consisting of:
- Piston complete
- Cushioning seals
- Piston rod bearing
- Piston rod scraper seal
- Piston rod seal
- O-rings



#### Seal Kits

Cyl. bore mm	Standard	High Temp.
320	<b>KL7339</b>	<b>KL7340</b>

#### Grease



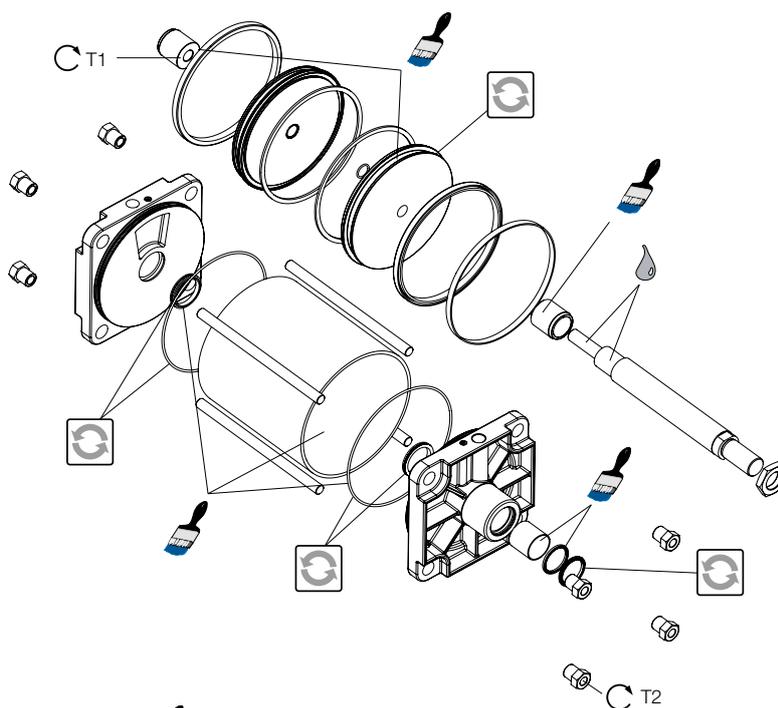
Standard 4g tube **KL8220**

High temperature 4g tube **KL8220**

#### P1D-T Optional cylinder versions

Cyl. bore mm	Through rod Standard temperature
320	<b>P1D-6WRNF</b>

#### Seal kits for bore Ø320 mm



- = Included in seal kit
- = Lubricated with grease
- = Socket head
- = Locking fluid
- = Tightening torque
- = Nut A/F

Bore	Piston			
mm	T1 Nm	NV mm	T2 Nm	NV mm
320	250	30	200	41

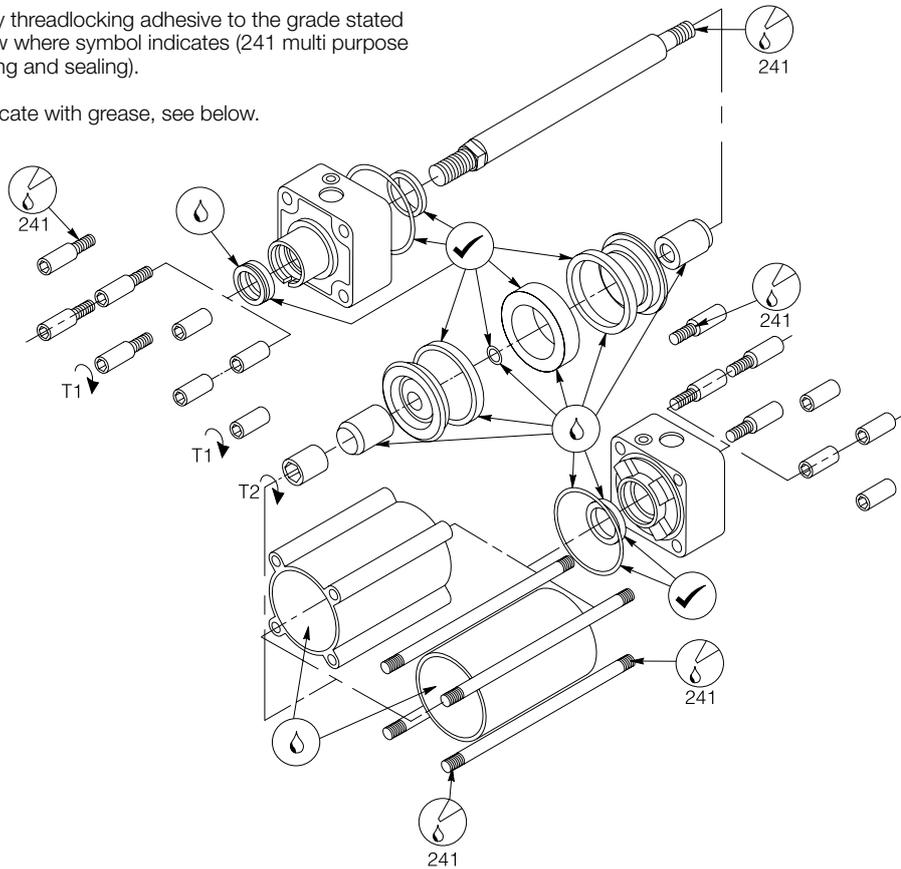
Loctite LT638 locking fluid must be used



## P1E ISO Cylinders

### Repair kits

- = Included in repair kit
- = Apply threadlocking adhesive to the grade stated below where symbol indicates (241 multi purpose locking and sealing).
- = Lubricate with grease, see below.



Bore mm	T1 Nm	NV	T2 Nm	NV
32	4-5	6	9-10	5
40	4-5	6	9-10	6
50	9-10	8	28-30	12
63	9-10	8	28-30	12
80	18-20	10	80-85	12
100	18-20	10	80-85	12
125	24-26	24	115-125	30
160	36-38	30	163-177	22
200	36-38	30	163-177	22

Bore mm	Seal kits	
	Standard	High temperature
32	<b>P1E-6KRM</b>	<b>P1E-6KRV</b>
40	<b>P1E-6LRM</b>	<b>P1E-6LRV</b>
50	<b>P1E-6MRM</b>	<b>P1E-6MRV</b>
63	<b>P1E-6NRM</b>	<b>P1E-6NRV</b>
80	<b>P1E-6PRM</b>	<b>P1E-6PRV</b>
100	<b>P1E-6QRM</b>	<b>P1E-6QRV</b>
125	<b>P1E-6RRM</b>	<b>P1E-6RRV</b>
160	<b>P1E-6SRM</b>	<b>P1E-6SRV</b>
200	<b>P1E-6TRM</b>	<b>P1E-6TRV</b>

### Grease



Standard	30g	<b>9127394541</b>
High temperature	30g	<b>9127394521</b>
Low temperature	30g	<b>9127394541</b>

## P1C Cylinders

### Seal kits

- Complete seal kits consisting of:
- Scraper ring
- Piston rod bearing
- Piston rod seal
- Piston bearing
- Piston seals
- Cushioning rings
- O-rings



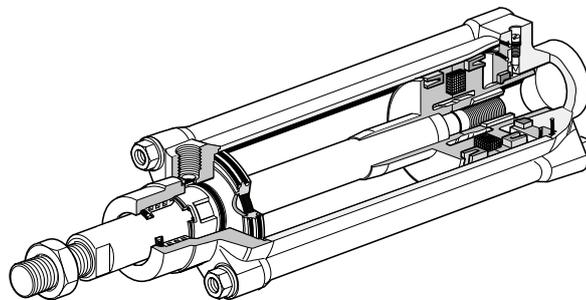
Bore mm	Option			
	Standard	High Temp	Low Temp	Hydraulic
32	<b>9121715901</b>	<b>9121715931</b>	<b>9121715921</b>	<b>9121715961</b>
40	<b>9121715902</b>	<b>9121715932</b>	<b>9121715922</b>	<b>9121715962</b>
50	<b>9121715903</b>	<b>9121715933</b>	<b>9121715923</b>	<b>9121715963</b>
63	<b>9121715904</b>	<b>9121715934</b>	<b>9121715924</b>	<b>9121715964</b>
80	<b>9121715905</b>	<b>9121715935</b>	<b>9121715925</b>	<b>9121715965</b>
100	<b>9121715906</b>	<b>9121715936</b>	<b>9121715926</b>	<b>9121715966</b>
125	<b>9121715907</b>	<b>9121715937</b>	<b>9121715927</b>	<b>9121715967</b>

Bore mm	Option	
	Thru Rod Standard	Rod Locking Standard
32	<b>9121715952</b>	<b>9121715941</b>
40	<b>9121715953</b>	<b>9121715942</b>
50	<b>9121715954</b>	<b>9121715943</b>
63	<b>9121715955</b>	<b>9121715944</b>
80	<b>9121715956</b>	<b>9121715945</b>
100	<b>9121715957</b>	<b>9121715946</b>
125	<b>9121715958</b>	<b>9121715947</b>

### Grease



Standard	30 g	<b>9127394541</b>
High temperature	30 g	<b>9127394521</b>
Low temperature	30 g	<b>9127394531</b>



## C41 Cylinders

### Seal kits

Bore mm	Standard	High temp	Hydraulic	Thru rod
32	9121565201	9122298611	9123981801	9121565251
40	9121565202	9122298612	9123981802	9121565252
50	9121565203	9122298613	9123981803	9121565253
63	9121565204	9122298614	9123981804	9121565254
80	9121565205	9122298615	9123981805	9121565255
100	9121565206	9122298616	9123981806	9121565256
125	9121565207	9122298617	9123981807	9121565257
160	9121565208	9122298618		9121565258
200	9121565209	9122298619		9121565259

The seal kit you should use depends on the letter used for "Piston rod and sealing material" in the cylinder ordering key, this is digit number 10 in the standard ordering key or position 6 in the special version ordering key. Seal kit for through rod locking is for standard temperature only and should be used when you have a cylinder with through rod (F in position 9 for standard ordering key or position 5 in special ordering key).

### Example

Standard ordering key	<b>C41-S032MC-0200</b>	(position 10)
Order key, special versions	<b>41CKMC200C15000</b>	(position 6)



Letter	Seal Kit
<b>Position 10</b>	
<b>S, C, M or R</b>	Standard
<b>F, G, N or D</b>	High temp
<b>L, K, P or E</b>	Low temp
<b>J or Z</b>	Hydraulic
<b>Position 9 when position 10 S, C, M or R</b>	
<b>F</b>	Thru rod

## P1K Cylinders



### Seal kits

Bore mm	Option			
	Standard	High Temp.	Low Temp.	Hydraulic
32	9122352088	9122421921	P1K-6032PL	9122421931
40	9122352089	9122421922	P1K-6040PL	9122421932
50	9122352090	9122421923	P1K-6050PL	9122421933
63	9122352091	9122421924	P1K-6063PL	9122421934
80	9122352092	9122421925	P1K-6080PL	9122421935
100	9122352093	9122421926	P1K-6100PL	9122421936
125	9122352100	-	-	9122421937

\* Please contact customer service.

### Grease



Standard	30g	9127394541
High temperature	30g	9127394521
Low temperature	30g	9127394541

## P1S Cylinders

### Seal kits

- Complete seal kits consisting of:
- Piston seals
- Cushioning seals
- Piston rod bearing
- Piston rod seal
- Scraper ring
- O-rings

### Standard temperature versions

Bore mm	Cylinder designation	Order code
32	P1S-•032MS	9121659195
40	P1S-•040MS	9121659196
50	P1S-•050MS	9121659197
63	P1S-•063MS	9121659198
80	P1S-•080MS	9121718905
100	P1S-•100MS	9121718906
125	P1S-•125MS	9121718907

### High temperature versions

Bore mm	Cylinder designation	Order code
32	P1S-•032MF	9121720595
40	P1S-•040MF	9121720596
50	P1S-•050MF	9121720597
63	P1S-•063MF	9121720598
80	P1S-•080MF	9121718925
100	P1S-•100MF	9121718926
125	P1S-•125MF	9121718927

### Low temperature versions

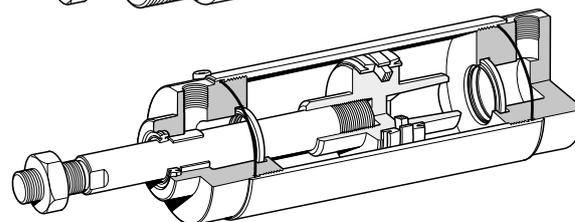
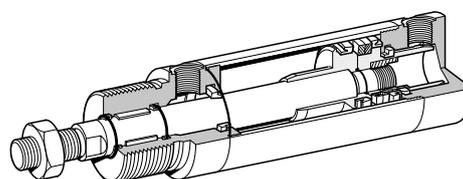
Bore mm	Cylinder designation	Order code
80	P1S-•080ML	9121718935
100	P1S-•100ML	9121718936
125	P1S-•125ML	9121718937

### Standard temperature with Through rod

Bore mm	Cylinder designation	Order code
80	P1S-•080FS	9121718955
100	P1S-•100FS	9121718956
125	P1S-•125FS	9121718957

### Standard temperature with stainless steel scraper ring

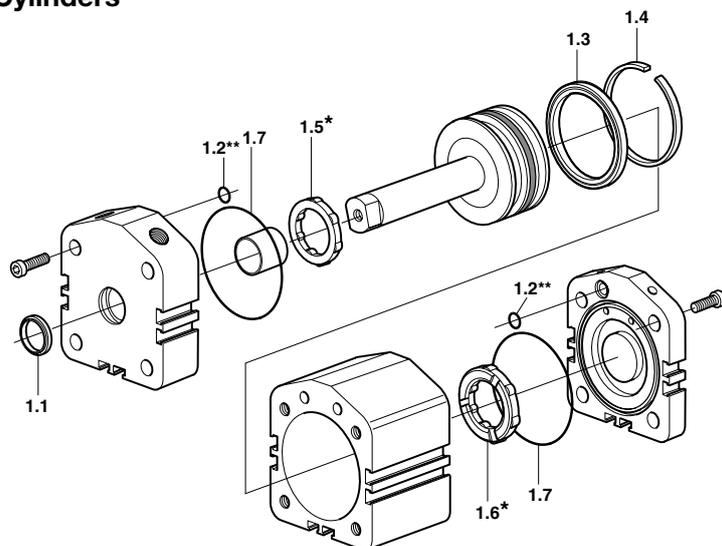
Bore mm	Cylinder designation	Order code
80	P1S-•080MQ	9121718915
100	P1S-•100MQ	9121718916
125	P1S-•125MQ	9121718917



### Grease

Version	Weight	Order code
Standard and Low temperature	30 g	9127394541
High temperature	30 g	9127394521

### P1M Cylinders



#### Seal kits

No	Qty	Part
1.1	1	Scraper ring/Piston rod seal
1.2	2	O-ring
1.3	1	Piston seals
1.4	1	Piston bearing
1.5	1	Front end bumper
1.6	1	Rear end bumper
1.7	2	O-ring

\* Bumpers 1.5 and 1.6 not valid for high-temperature version, type G.

\*\* Quantity and design vary, depending on the cylinder variant and model.

#### Seal kits

Bore mm	Option	
	Standard	High Temp
12	<b>Obsolete</b>	<b>Obsolete</b>
16	<b>Obsolete</b>	<b>Obsolete</b>
20	<b>P1M-6HRN</b>	<b>Obsolete</b>
25	<b>P1M-6JRN</b>	<b>Obsolete</b>
32	<b>P1M-6KRN</b>	<b>Obsolete</b>
40	<b>P1M-6LRN</b>	<b>Obsolete</b>
50	<b>P1M-6MRN</b>	<b>Obsolete</b>
63	<b>P1M-6NRN</b>	<b>Obsolete</b>
80	<b>P1M-6PRN</b>	<b>Obsolete</b>
100	<b>P1M-6QRN</b>	<b>Obsolete</b>

#### Grease

Weight g	Option	
	Standard	High Temp
30	<b>9127394541</b>	<b>9127394521</b>

### C0D - C0P Cylinders

#### Seal kits

Description	Order code
C0D300-40/-40S	<b>9121655401</b>
C0D600-50/-50S	<b>9121655501</b>
C0D1200-50/-50S	<b>9121655601</b>
C0P160-50S/-80S	<b>9121655101</b>
C0P300-50S/-80S	<b>9121655201</b>
C0P2500-60/-80	<b>9121655301</b>
C0P2500-60S/-100S	<b>9121655302</b>

#### Grease

Weight	Order code
30 g	<b>9127394541</b>



## P1P Compact ISO Cylinders

Complete seal kits consist of:

- Piston (complete)
- Piston rod seal
- O rings



### Seal kits

Bore mm	P1P cylinder version		
	Std temp	High temp	Low temp
20	<b>P1P-6HRN</b>	<b>P1P-6HRF</b>	<b>P1P-6HRL</b>
25	<b>P1P-6JRN</b>	<b>P1P-6JRF</b>	<b>P1P-6JRL</b>
32	<b>P1P-6KRN</b>	<b>P1P-6KRF</b>	<b>P1P-6KRL</b>
40	<b>P1P-6LRN</b>	<b>P1P-6LRF</b>	<b>P1P-6LRL</b>
50	<b>P1P-6MRN</b>	<b>P1P-6MRF</b>	<b>P1P-6MRL</b>
63	<b>P1P-6NRN</b>	<b>P1P-6NRF</b>	<b>P1P-6NRL</b>
80	<b>P1P-6PRN</b>	<b>P1P-6PRF</b>	<b>P1P-6PRL</b>
100	<b>P1P-6QRN</b>	<b>P1P-6QRF</b>	<b>P1P-6QRL</b>

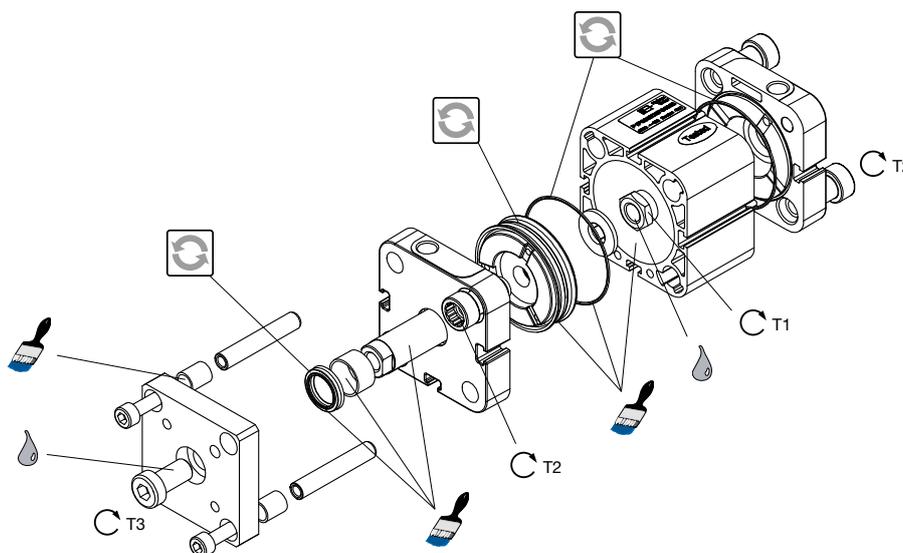
### Grease



Standard temperature	30g	<b>9127394541</b>
High temperature	30g	<b>9127394521</b>
Low temperature	30g	<b>9127394541</b>

For through rods variants, order two seal kits.

**Example:** For a P1PS...KS Ø63 through rod, standard temperature version, order 2 x **P1P-6NRN**



= Included in seal kit    = Lubricated with grease

= Socket head    = Locking fluid

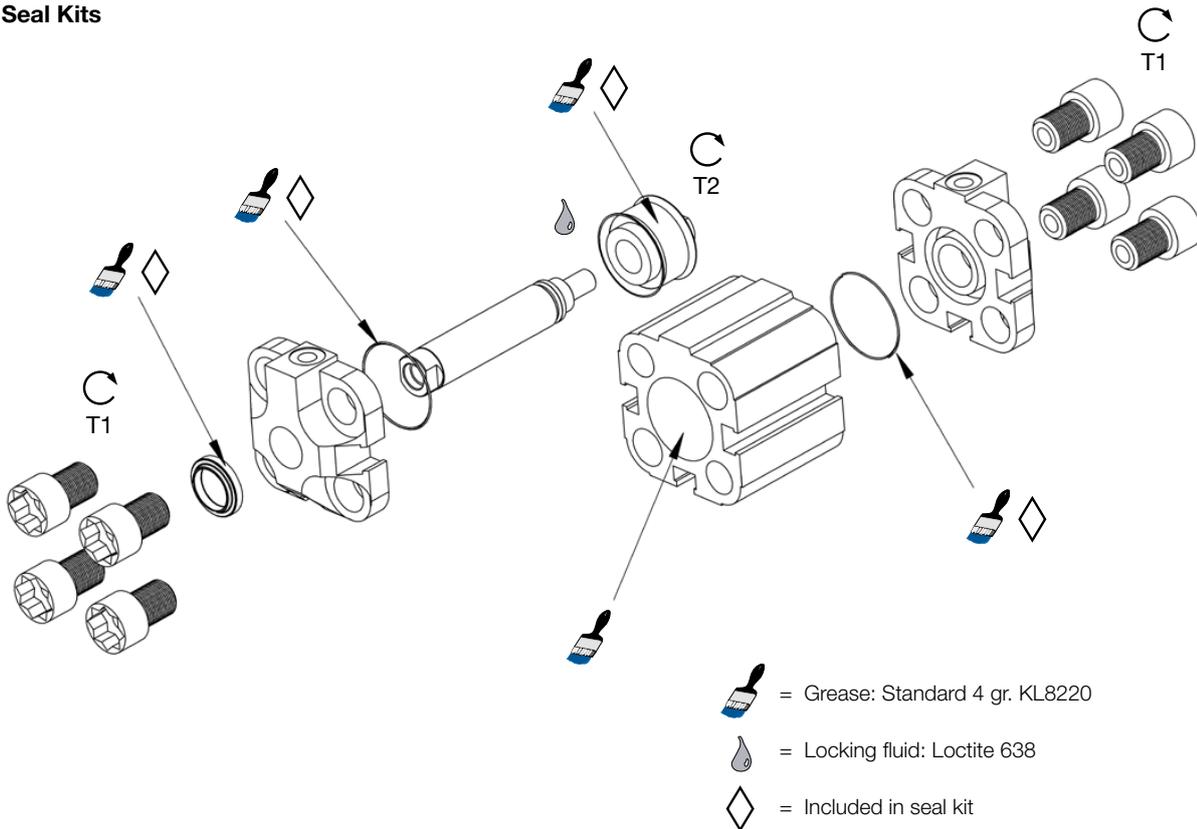
= Tightening torque    *Loctite 243 must be used for standard and low temperature versions.*  
*Loctite 270 must be used for high temperature versions*

Bore mm	Plastic piston T1 Nm	AF mm	T2 Nm	AF mm	T3 Nm	AF mm
20	3,5	8	14	7	8	4
25	3,5	8	14	7	8	4
32	8	10	20	7	20	5
40	12	13	20	7	20	5
50	20	17	40	10	40	7
63	20	17	40	10	40	7
80	35	19	14	5	70	8
100	80	24	28	6	70	8

NZ Cylinders Ø12 - Ø25



Seal Kits



- = Grease: Standard 4 gr. KL8220
- = Locking fluid: Loctite 638
- = Included in seal kit

Cyl. Ø	T1		T2	
12	10 Nm	6	3 Nm	5
16	10 Nm	6	3 Nm	7
20	12 Nm	8	5,5 Nm	8
25	12 Nm	8	5,5 Nm	8

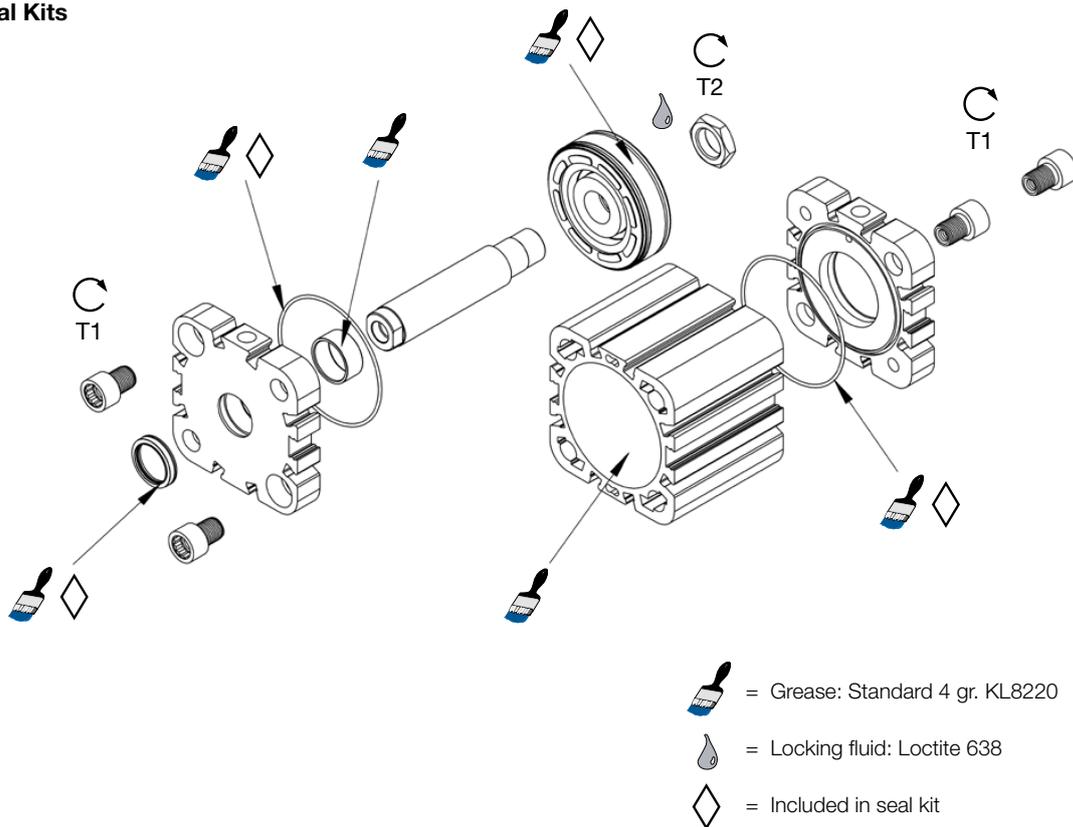
Seal kit order codes

Cyl. Ø	Standard NZ
32	<b>PD48301</b>
40	<b>PD48302</b>
50	<b>PD48303</b>
63	<b>PD48304</b>

NZ Cylinders Ø32 - Ø100



Seal Kits



- = Grease: Standard 4 gr. KL8220
- = Locking fluid: Loctite 638
- = Included in seal kit

Seal kit order codes

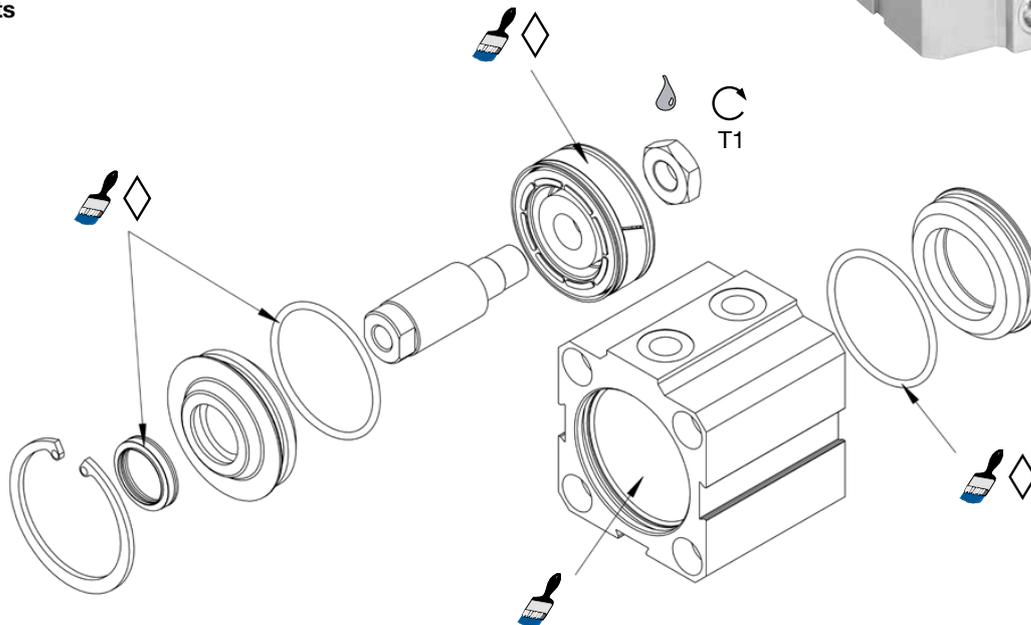
Cyl. Ø	T1		T2	
32	13 ± 1 Nm	10	10 ± 2 Nm	13
40	13 ± 1 Nm	10	10 ± 2 Nm	17
50	22 ± 1 Nm	10	10 ± 2 Nm	19
63	22 ± 1 Nm	10	10 ± 2 Nm	24
80	15 ± 1 Nm	5	10 ± 2 Nm	24
100	15 ± 1 Nm	5	10 ± 2 Nm	24

Cyl. Ø	Standard NZ / NZD	High temp. NZ / NZD
32	<b>PD41478</b> / <b>PD42095</b>	<b>PD49113</b> / <b>PD49119</b>
40	<b>PD41479</b> / <b>PD42096</b>	<b>PD49114</b> / <b>PD49120</b>
50	<b>PD41480</b> / <b>PD42097</b>	<b>PD49115</b> / <b>PD49121</b>
63	<b>PD41481</b> / <b>PD42098</b>	<b>PD49116</b> / <b>PD49122</b>
80	<b>PD41482</b> / <b>PD42099</b>	<b>PD49117</b> / <b>PD49123</b>
100	<b>PD41483</b> / <b>PD42100</b>	<b>PD49118</b> / <b>PD49124</b>

SZ Cylinders



Seal Kits



-  = Grease: Standard 4 gr. KL8220
-  = Locking fluid: Loctite 638
-  = Included in seal kit

Cyl. Ø	T1 	
12	7,5 ± 1 Nm	-
16	7,5 ± 1 Nm	6
20	10 ± 2 Nm	8
25	10 ± 2 Nm	10
32	10 ± 2 Nm	13
40	10 ± 2 Nm	16
50	10 ± 2 Nm	18
63	10 ± 2 Nm	24
80	10 ± 2 Nm	24
100	10 ± 2 Nm	24

Seal kit order codes

Cyl. Ø	SZ / SZV	SZD
12	<b>PD35419</b>	-
16	<b>PD35420</b>	-
20	<b>PD35421</b>	-
25	<b>PD35422</b>	-
32	<b>PD43996</b>	<b>PD44008</b>
40	<b>PD43997</b>	<b>PD44009</b>
50	<b>PD43998</b>	<b>PD44010</b>
63	<b>PD43999</b>	<b>PD44011</b>
80	<b>PD44000</b>	<b>PD44012</b>
100	<b>PD44001</b>	<b>PD44013</b>

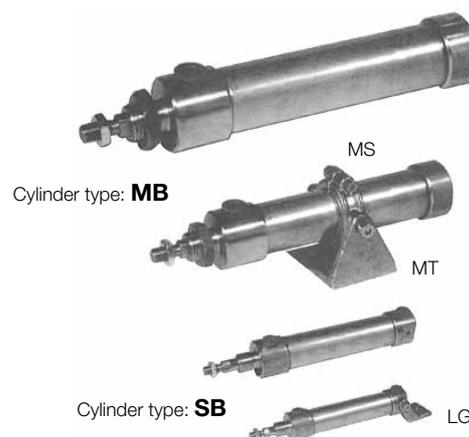
### B Series

Bore size (mm)	Order code Standard temperature
32	<b>6360075</b>
40	<b>6360085</b>
50	<b>6360115</b>
63	<b>Obsolete</b>



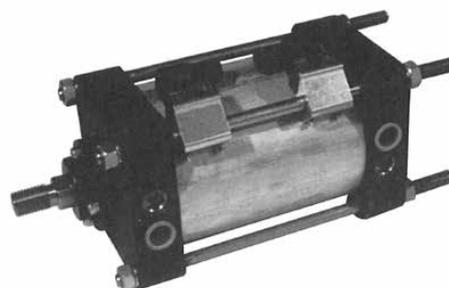
### MB / SB Series

Bore size (mm)	Order code Standard temperature	Order code High temperature (AV)
19	<b>6360020</b>	<b>Obsolete</b>
25	<b>6360040</b>	<b>Obsolete</b>



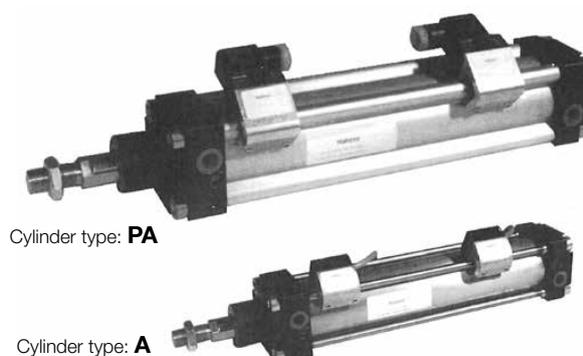
### C Series

Bore size (mm)	Order code Standard temperature	Order code Oversized Piston (VK)	Order code High temperature (AV)
125	<b>6360200</b>	<b>6360202</b>	<b>6360204</b>
150	<b>6360220</b>	<b>6360222</b>	<b>6360224</b>
200	<b>6360240</b>	<b>6360242</b>	<b>N/A</b>
250	<b>6360250</b>	<b>6360252</b>	<b>N/A</b>
300	<b>6360280</b>	<b>Obsolete</b>	<b>N/A</b>



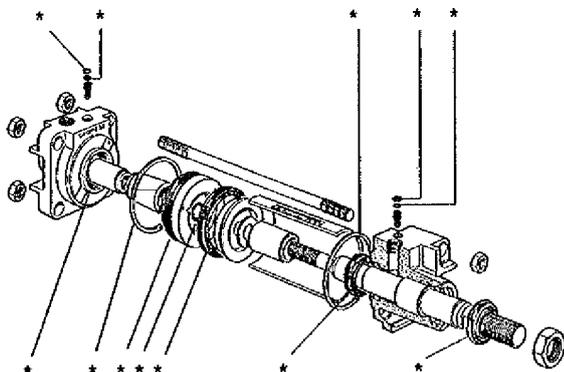
### A / PA Series

Bore size (mm)	Order code Standard temperature	Order code High temperature (AV)
32	<b>2209001</b>	<b>6360074</b>
40	<b>2209004</b>	<b>Obsolete</b>
50	<b>2209007</b>	<b>6360114</b>
63	<b>2209010</b>	<b>6360134</b>
80	<b>2209013</b>	<b>6360174</b>
100	<b>2209016</b>	<b>6360194</b>



## PX CNOMO Cylinders

### Seals kits



Components marked (\*) are part of the bellow repair kits



Ø mm	Standard temperature range
25	<b>JJ025A02</b>
32	<b>JJ032A02</b>
40	<b>JJ040A02</b>
50	<b>JJ050A02</b>
63	<b>JJ063A02</b>
80	<b>JJ080A02</b>
100	<b>JJ100A02</b>
125	<b>JJ125A02</b>

### Assembly nutted stud and mountings tightening torque (Nm)

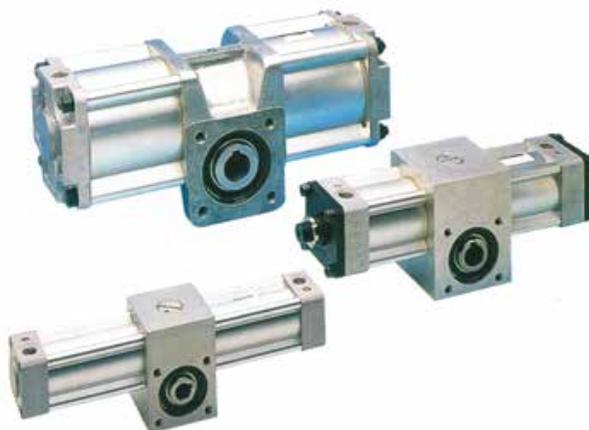
Ø mm	Std. body		Steel body		Epoxy body	
	Stroke	Torque	Stroke	Torque	Stroke	Torque
25	0-800	5	801-1200	2		
32	0-900	5	901-2000	2	0-400	2,5
40	0-1100	5	1101-2000	3	0-600	3,5
50	0-1200	10	1201-2000	6	0-700	6,0
63	0-1200	12	1201-2000	8	0-700	9,0
80	0-1400	20	1401-2000	14	0-700	12,0
100	0-1400	24	1401-2000	20	0-900	13,0
125	0-1500	35	1501-2000	30	0-1000	17,0

**Note:** Nutted studs and mounting nuts should be progressively tightened diagonally opposite until indicated torque values are reached

## VR Torque Units

### Seal kits

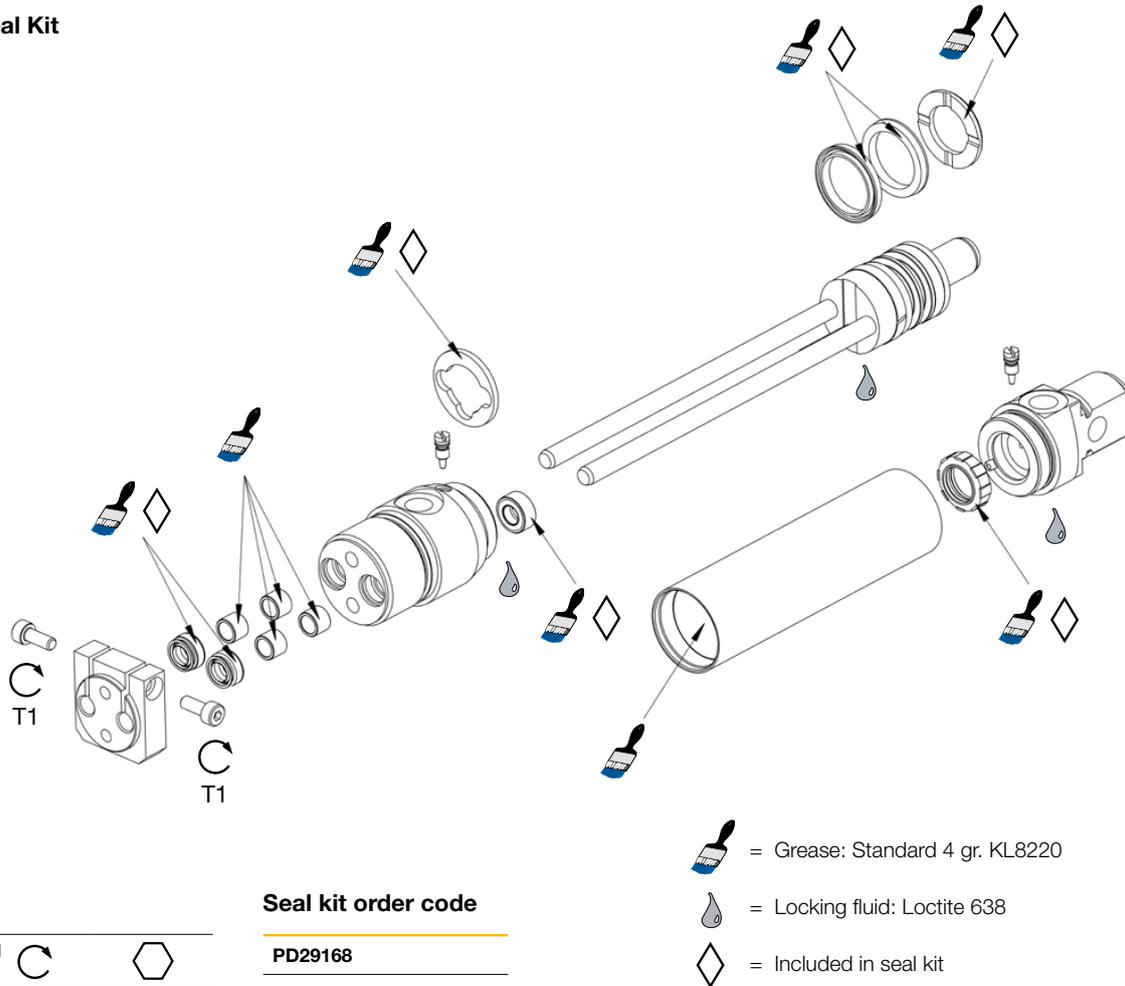
Ø bore (mm)	VRS / VRSM Cylinders	VRA / VRAM Cylinders
32	<b>JJVR032</b>	<b>JJVRA032</b>
40	<b>JJVR040</b>	<b>JJVRA040</b>
50	<b>JJVR050</b>	<b>JJVRA050</b>
63	<b>JJVR063</b>	<b>JJVRA063</b>
80	<b>JJVR080</b>	<b>JJVRA080</b>
100	<b>JJVR100</b>	
125	<b>JJVR125</b>	



RDV Cylinders - Ø25



Seal Kit



- = Grease: Standard 4 gr. KL8220
- = Locking fluid: Loctite 638
- = Included in seal kit

T1		
3 - 4 Nm		3

Seal kit order code

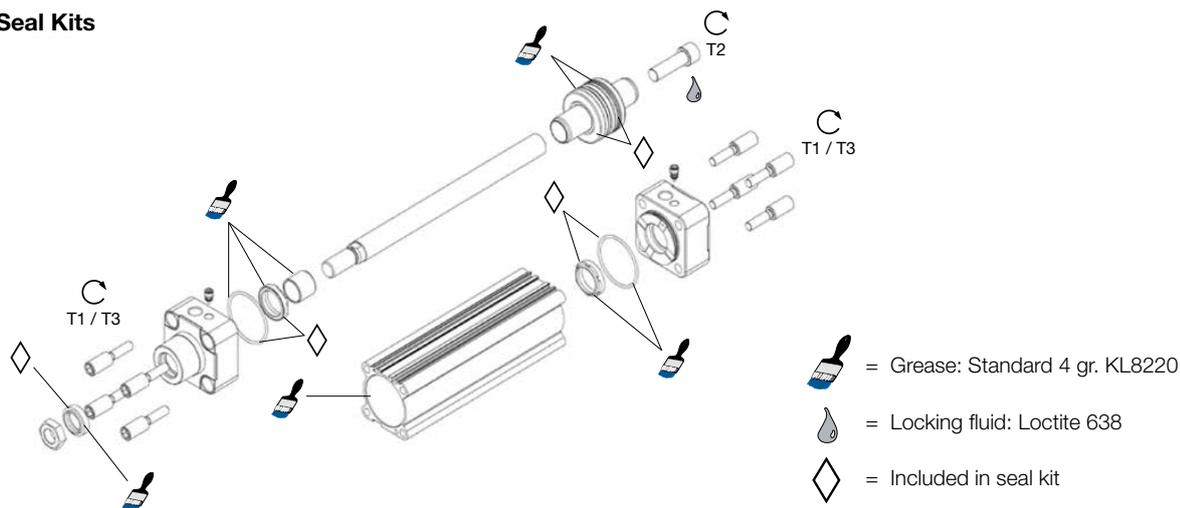
PD29168

### AZ Cylinders

Only for cylinders with item numbers beginning A  
e.g. A15L0025/000AAAAA000A0000



### Seal Kits



### Seal kit order codes

Cyl. Ø	AZ5000 / AZD5000 / AZZ5000		AZ...A	AZ...AD	AZ...AH	AZ...AHD
	Standard	Viton	with metal scraper	with metal scraper and through rod	with metal scraper, hydraulic version	with metal scraper, hydraulic version and through rod
32	<b>KL7222</b>	<b>KL7223</b>	<b>PD49101</b>	<b>PD49102</b>	<b>PD49089</b>	<b>PD49090</b>
40	<b>KL7224</b>	<b>KL7225</b>	<b>PD49103</b>	<b>PD49104</b>	<b>PD49091</b>	<b>PD49092</b>
50	<b>KL7226</b>	<b>KL7227</b>	<b>PD49105</b>	<b>PD49106</b>	<b>PD49093</b>	<b>PD49094</b>
63	<b>KL7228</b>	<b>KL7229</b>	<b>PD49107</b>	<b>PD49108</b>	<b>PD49095</b>	<b>PD49096</b>
80	<b>KL7230</b>	<b>KL7231</b>	<b>PD49109</b>	<b>PD49111</b>	<b>PD49097</b>	<b>PD49098</b>
100	<b>KL7232</b>	<b>KL7233</b>	<b>PD49111</b>	<b>PD49112</b>	<b>PD49099</b>	<b>PD49100</b>

### ISO Cylinder

Cyl. Ø	T1		T2		T3	
32	10 - 12 Nm	6	5 - 6 Nm	5	4 - 5 Nm	6
40	10 - 12 Nm	6	12 - 14 Nm	6	4 - 5 Nm	6
50	16 - 20 Nm	8	16 - 18 Nm	10	9 - 10 Nm	8
63	16 - 20 Nm	8	16 - 18 Nm	10	9 - 10 Nm	8
80	26 - 32 Nm	10	20 - 23 Nm	12	18 - 20 Nm	10
100	26 - 32 Nm	10	20 - 23 Nm	12	18 - 20 Nm	10

T3 = torque tie rod cylinder

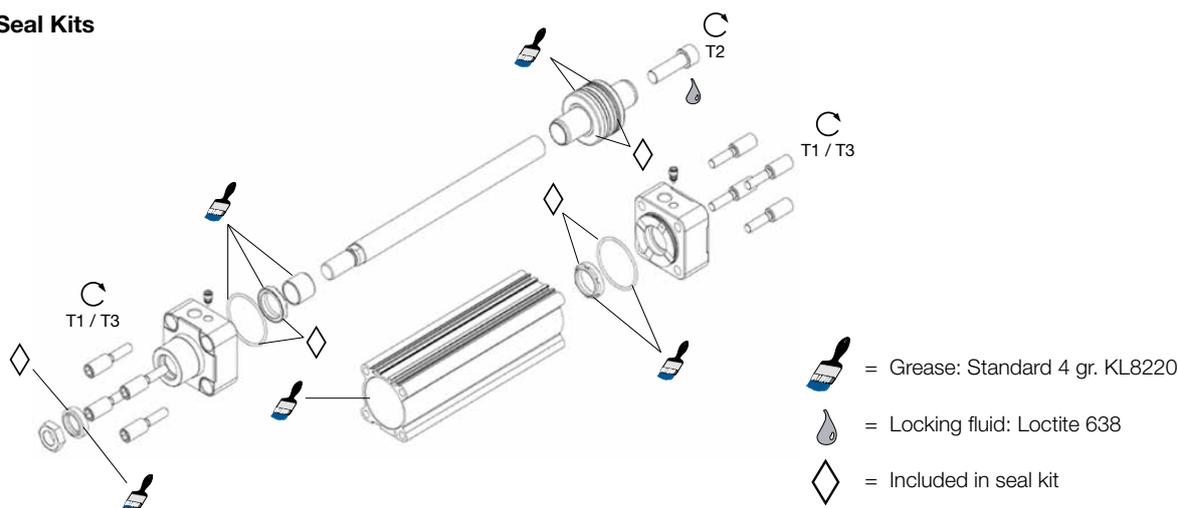
= across flats tie rod cylinder

**AZ Cylinders**

Only for cylinders with item numbers beginning PA  
 e.g. PA61240-0125



**Seal Kits**



**Seal kit order codes**

Cyl. Ø	AZ5000 / AZD5000 / AZZ6000 Standard	AZ1000 Viton	AZ...A with metal scraper	AZ...D with through rod	AZ...H hydraulic version
32	<b>PD39169</b>	<b>PD39499</b>	<b>PD41012</b>	<b>PD39381</b>	<b>PD39505</b>
40	<b>PD39170</b>	<b>PD39500</b>	<b>PD41013</b>	<b>PD39382</b>	<b>PD39506</b>
50	<b>PD39171</b>	<b>PD39501</b>	<b>PD41014</b>	<b>PD39383</b>	<b>PD39507</b>
63	<b>PD39172</b>	<b>PD39502</b>	<b>PD41015</b>	<b>PD39384</b>	<b>PD39508</b>
80	<b>PD39173</b>	<b>PD39503</b>	<b>PD41016</b>	<b>PD39385</b>	<b>PD39509</b>
100	<b>PD39174</b>	<b>PD39504</b>	<b>PD41017</b>	<b>PD39386</b>	<b>PD39510</b>

**ISO Cylinder**

Cyl. Ø	T1		T2		T3	
32	10 - 12 Nm	6	5 - 6 Nm	5	4 - 5 Nm	6
40	10 - 12 Nm	6	12 - 14 Nm	6	4 - 5 Nm	6
50	16 - 20 Nm	8	16 - 18 Nm	10	9 - 10 Nm	8
63	16 - 20 Nm	8	16 - 18 Nm	10	9 - 10 Nm	8
80	26 - 32 Nm	10	20 - 23 Nm	12	18 - 20 Nm	10
100	26 - 32 Nm	10	20 - 23 Nm	12	18 - 20 Nm	10

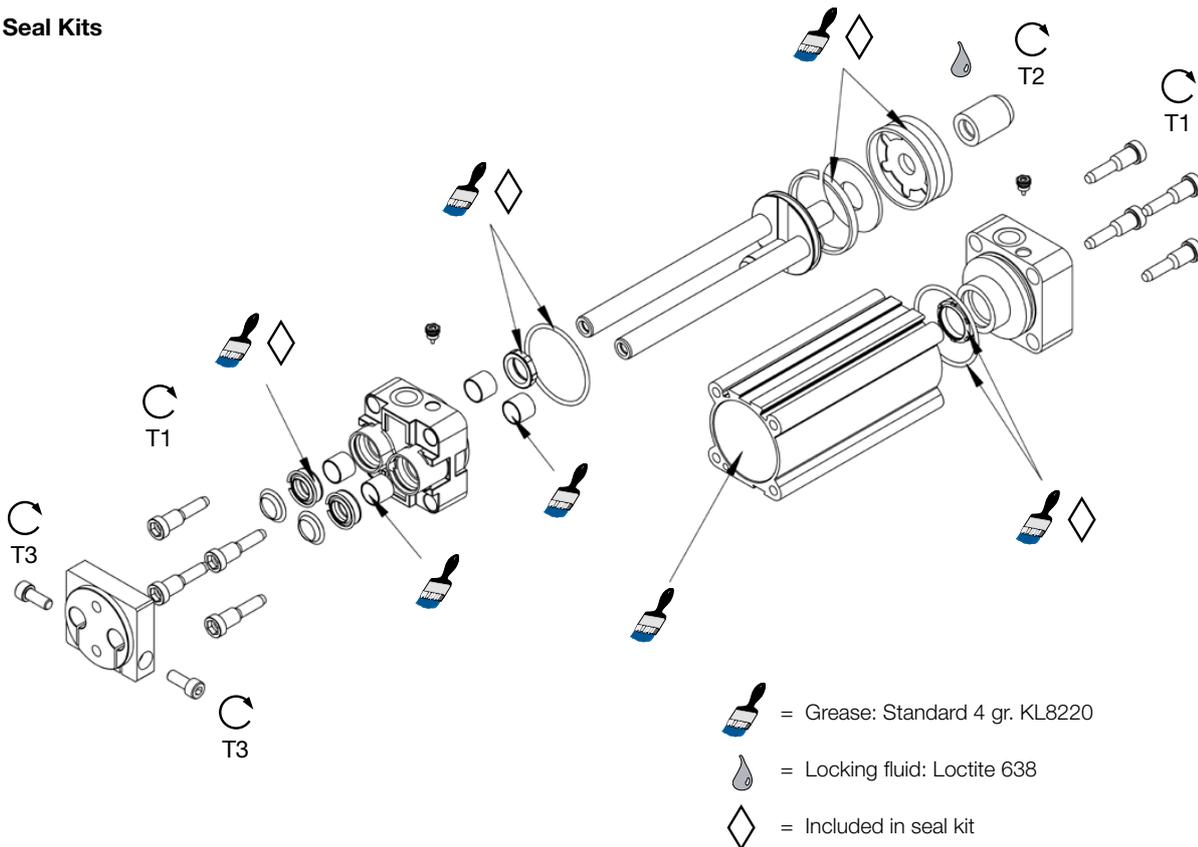
T3 = torque tie rod cylinder

= across flats tie rod cylinder

AZV Cylinders



Seal Kits



- = Grease: Standard 4 gr. KL8220
- = Locking fluid: Loctite 638
- = Included in seal kit

ISO Cylinder

Cyl. Ø	T1		T2		T3	
32	10 - 12 Nm	6	5 - 6 Nm	5	5,5 ± 0,8 Nm	4
40	10 - 12 Nm	6	12 - 14 Nm	6	5,5 ± 0,8 Nm	4
50	16 - 20 Nm	8	16 - 18 Nm	10	10 ± 1,5 Nm	5
63	16 - 20 Nm	8	16 - 18 Nm	10	20 ± 3 Nm	6
80	26 - 32 Nm	10	20 - 23 Nm	12	20 ± 3 Nm	6
100	26 - 32 Nm	10	20 - 23 Nm	12	20 ± 3 Nm	6

Seal kit order codes

Cyl. Ø	Standard	Viton
32	<b>PD23003</b>	<b>PD25555</b>
40	<b>PD23004</b>	<b>PD25556</b>
50	<b>PD23005</b>	<b>PD25557</b>
63	<b>PD23006</b>	<b>PD25558</b>
80	<b>PD23007</b>	<b>PD25031</b>
100	<b>PD23008</b>	<b>PD25030</b>

## CT/C2T Cylinders

### Seal kits

Ø bore (mm)	Standard temperature	High temperature	Standard temperature through rod	High temperature through rod
32	<b>CTSK032</b>	<b>CTSK032V</b>	<b>CTSK032 + CTSKF032</b>	<b>N/A</b>
40	<b>CTSK040</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
50	<b>CTSK050</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
63	<b>CTSK063</b>	<b>CTSK063V</b>	<b>N/A</b>	<b>N/A</b>
80	<b>CTSK080</b>	<b>CTSK080V</b>	<b>N/A</b>	<b>N/A</b>
100	<b>CTSK100</b>	<b>CTSK100V</b>	<b>N/A</b>	<b>N/A</b>



## 1" Brass Cylinders

### Seal kits

Kits are available for all cylinder sizes, comprising a complete set of seals. To order specify part number shown in chart.

Cylinder Number	Order code
<b>40400</b>	<b>40400R</b>
<b>40410</b>	<b>40400R</b>
<b>41400</b>	<b>41400R</b>
<b>41410</b>	<b>41400R</b>
<b>491</b>	<b>491R</b>
<b>492</b>	<b>491R</b>
<b>40900</b>	<b>40900R</b>
<b>41910</b>	<b>40900R</b>
<b>41000</b>	<b>41000R</b>



## P1Z Rodless Magnetic Cylinders

### Seal kits

Bore mm	Basic version	Guided version
16	<b>P1ZM016SNN-R</b>	<b>P1ZM016GNN-R</b>
20	<b>P1ZM020SNN-R</b>	<b>P1ZM020GNN-R</b>
32	<b>P1ZM032SNN-R</b>	<b>P1ZM032GNN-R</b>



## RA Rotary Actuators

### Seal kits

Description	Order code
Mounting plate for VGD15 seal kit / spare kits:	<b>9127 386401</b>
RA-2-SS	<b>9121 679920</b>
RA-4-SS	<b>9121 679921</b>
RA-8-SS	<b>9121 679922</b>
RA-12-SS	<b>9121 679923</b>
RA-20-SS	<b>9121 679924</b>



## Hydrochecks

### Maintenance kits

Description	Order code
Repair kit for B181-1 or B181-2	<b>B732-504</b>
Repair kit for B181-5 or B181-6	<b>B732-505</b>
Repair kit for F3 Hydrocheck	<b>JJF3</b>



## VB Hydraulic Clamp Cylinders

### Seal kits

Unit type	Order code
<b>VB Ø36</b>	<b>JJVB36</b>
<b>VB Ø48</b>	<b>JJVB48</b>
<b>VBH Ø48</b>	<b>JJVBH48</b>
<b>VB Ø60</b>	<b>JJVB60</b>
<b>VBH Ø60</b>	<b>JJVBH60</b>



## CH Series

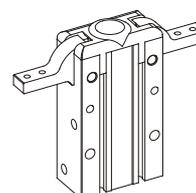
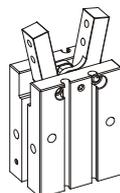
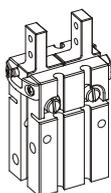
Description	Order code
Repair Kit	<b>CH20R</b>
Repair Kit	<b>CH25R</b>
Repair Kit	<b>CH32R</b>
Repair Kit	<b>CH40R</b>
Repair Kit	<b>CH50R</b>
Repair Kit	<b>CH63R</b>
Repair Kit	<b>CH80R</b>



## P5GC Grippers



### Maintenance kits



Size	Parallel gripper	Angular gripper	Radial gripper
10	<b>Obsolete</b>	<b>Obsolete</b>	<b>Obsolete</b>
16	<b>Obsolete</b>	<b>Obsolete</b>	<b>Obsolete</b>
20	<b>Obsolete</b>	<b>Obsolete</b>	<b>Obsolete</b>
25	<b>Obsolete</b>	<b>Obsolete</b>	<b>Obsolete</b>

The kit contains seals.

### Spare parts

Size	Parallel gripper	Angular gripper	Radial gripper
10	<b>Obsolete</b>	<b>Obsolete</b>	<b>Obsolete</b>
16	<b>Obsolete</b>	<b>Obsolete</b>	<b>Obsolete</b>
20	<b>Obsolete</b>	<b>Obsolete</b>	<b>Obsolete</b>
25	<b>Obsolete</b>	<b>Obsolete</b>	<b>Obsolete</b>

The kit contains the levers and their spindles.

### Jaw-carriers

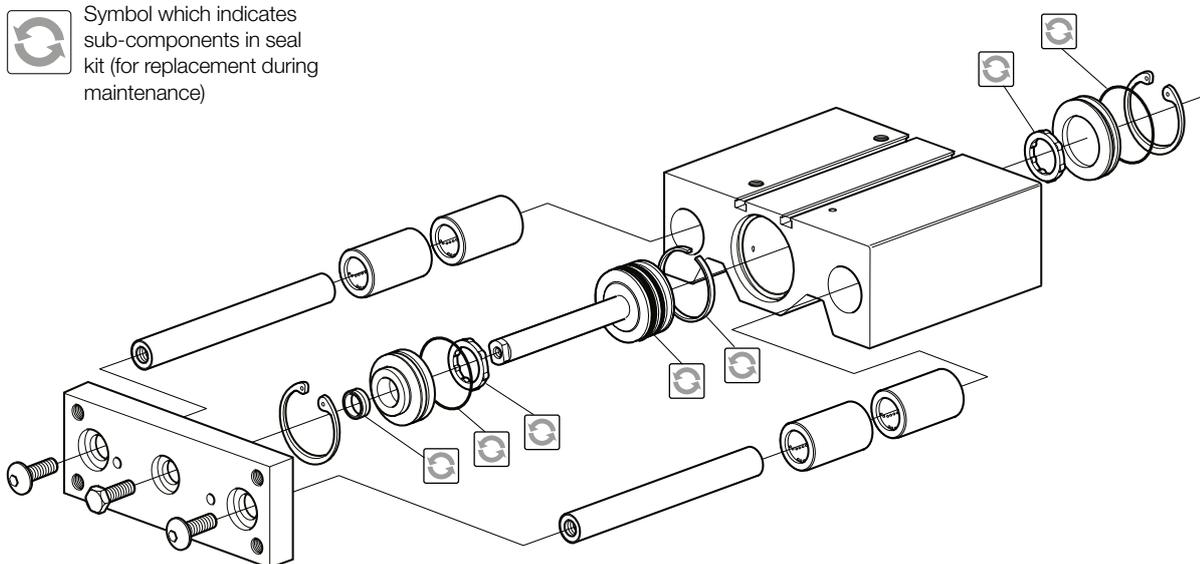
Size	Parallel gripper	Angular gripper	Radial gripper
10	<b>Obsolete</b>	<b>Obsolete</b>	<b>Obsolete</b>
16	<b>Obsolete</b>	<b>Obsolete</b>	<b>Obsolete</b>
20	<b>Obsolete</b>	<b>Obsolete</b>	<b>Obsolete</b>
25	<b>Obsolete</b>	<b>Obsolete</b>	<b>Obsolete</b>

The kit contains the jaw-carriers and their spindles.

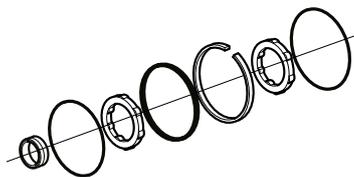
P5T Thrust Cylinders



Symbol which indicates sub-components in seal kit (for replacement during maintenance)



Seal kits



Bore mm	Standard temperature Nitrile rubber	High temperature Fluorocarbon rubber
16	PSK-P5T16	PSK-P5T16F
20	PSK-P5T20	PSK-P5T20F
25	PSK-P5T25	PSK-P5T25F
32	PSK-P5T32	PSK-P5T32F
40	PSK-P5T40	PSK-P5T40F
50	PSK-P5T50	PSK-P5T50F
63	PSK-P5T63	PSK-P5T63F
80	PSK-P5T80	PSK-P5T80F
100	PSK-P5T100	PSK-P5T100F

Grease



Standard temperature	High temperature
9127394541	9127394521

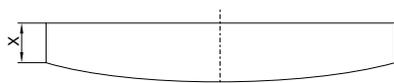


## P1V-S Stainless Steel Air Motors

### Lubrication and service life



The first service is due after approximately 500 hours of operation. After the first service, the service interval is determined by the degree of vane wear\*. The table below shows new dimensions and the minimum dimensions of worn vanes.



Air motor	Dimensions on new vanes X (mm), type of vanes			
	Standard	Z	C	M
P1V-S002	3,3	-	-	-
P1V-S003	X	-	-	-
P1V-S008	4,3	-	-	-
P1V-S012	4,2	4,2	4,2	4,2
P1V-S020	6,5	6,0	6,0	6,0
P1V-S028	X	X	X	X
P1V-S030	6,8	6,2	6,8	6,2
P1V-S057	X	X	X	X
P1V-S060	9,0	9,0	9,0	9,0
P1V-S086	X	X	X	X
P1V-S090	X	X	X	X
P1V-S120	14,7	14,0	14,0	14,0

Air motor	Dimensions on vanes X (mm), type of vanes			
	Standard	Z	C	M
P1V-S002	3,0	-	-	-
P1V-S003	X	-	-	-
P1V-S008	4,0	-	-	-
P1V-S012	3,3	3,3	3,3	3,3
P1V-S020	5,8	5,3	5,3	5,3
P1V-S028	X	X	X	X
P1V-S030	6,0	5,2	6,0	5,2
P1V-S057	X	X	X	X
P1V-S060	6,0	6,0	6,0	6,0
P1V-S086	X	X	X	X
P1V-S090	X	X	X	X
P1V-S120	14,2	13,5	13,5	13,5

The following normal service intervals should be applied in order to guarantee problem-free operation in air motors working continuously at load speeds.

#### Intermittent lubrication-free operation of motors with standard vanes, option 0

Duty cycle :	70%
Max. duration of intermittent use :	15 minutes
Filtering 40 µm :	750 hours of operation*
Filtering 5 µm :	1,000 hours of operation*

#### Continuous lubricated operation of motors with standard vanes, option 0

Duty cycle :	Continuous
Quantity of oil :	1 drop per m <sup>3</sup> of air
Filtering 40 µm :	1,000 hours of operation*
Filtering 5 µm :	2,000 hours of operation*

**Note!** After 1000 hours of operation, the grease in the planetary gearbox must be changed

#### Continuous lubrication-free operation of motors equipped with vanes, option C

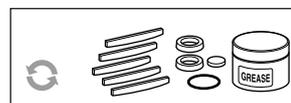
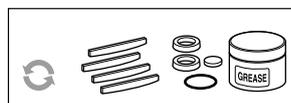
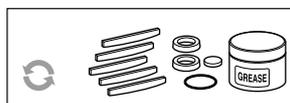
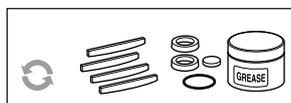
Duty cycle :	Continuous
Filtering 40 µm :	750 hours of operation*
Filtering 5 µm :	1,000 hours of operation*



\* The specified hours of operation apply when the motor is running at the speed corresponding to maximum power (load speed). This is approximately half free speed. If the motor operates at higher speeds, the service interval is shorter. If the motor operates at lower speeds, the service interval is longer.

## P1V-S Stainless Steel Air Motors

The following kits are available for the basic motors, consisting of vanes, (springs), silencers, O-rings, seals and 50 g of grease. (USDA-H1 approved)



### Optional function "0" and "D"

Service kits, vanes for intermittent lubrication-free operation

For motors	Order code
P1V-S002A	<b>P1V-6/446083B</b>
P1V-S003A	<b>P1V-6/446083B</b>
P1V-S008A	<b>P1V-6/446084B</b>
P1V-S012A0 / D0 (to serial no 948688)	<b>9121720601</b>
P1V-S012A0 / D0 (from serial no 948689)	<b>9121720636</b>
P1V-S020A• / D•	<b>9121720602</b>
P1V-S030A• / D•	<b>9121720603</b>
P1V-S060A0E00	<b>9121720604</b>
P1V-S060A0400	<b>9121720604</b>
P1V-S060A0350	<b>9121720604</b>
P1V-S060A0270	<b>9121720604</b>
P1V-S060A0170	<b>9121720604</b>
P1V-S060A0072	<b>9121720604</b>
P1V-S060A0063	<b>9121720604</b>
P1V-S060A0048	<b>9121720605</b>
P1V-S060A0030	<b>9121720605</b>
P1V-S060A0015	<b>9121720605</b>
P1V-S060A0010	<b>9121720605</b>
P1V-S090A0C00	<b>P1V-6/444919A</b>
P1V-S090A0350	<b>P1V-6/444919A</b>
P1V-S090A0270	<b>P1V-6/444919A</b>
P1V-S090A0170	<b>P1V-6/444919A</b>
P1V-S090A0063	<b>P1V-6/444919A</b>
P1V-S090A0048	<b>P1V-6/444919B</b>
P1V-S090A0030	<b>P1V-6/444919B</b>
P1V-S120A•800	<b>9121720606</b>
P1V-S120A•270	<b>9121720606</b>
P1V-S120A•110	<b>9121720606</b>
P1V-S120A•078	<b>9121720607</b>
P1V-S120A•032	<b>9121720607</b>
P1V-S120A•012	<b>9121720607</b>

### Service kits for high torque motors

For motors	Order code
P1V-S028A0017	<b>P1V-6/444786B</b>
P1V-S028A0008	<b>P1V-6/444786B</b>
P1V-S028A0005	<b>P1V-6/444786B</b>
P1V-S028A0003	<b>P1V-6/444786C</b>
P1V-S028A0002	<b>P1V-6/444786C</b>
P1V-S057A0015	<b>P1V-6/444787D</b>
P1V-S057A0011	<b>P1V-6/444787D</b>
P1V-S057A0007	<b>P1V-6/444787D</b>
P1V-S057A0004	<b>P1V-6/444787E</b>
P1V-S086A0015	<b>P1V-6/444919C</b>
P1V-S086A0011	<b>P1V-6/444919C</b>
P1V-S086A0007	<b>P1V-6/444919C</b>
P1V-S086A0004	<b>P1V-6/444919D</b>

### Optional function "C" and "E"

Service kits, vanes for continuous lubrication-free operation

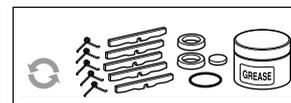
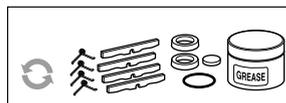
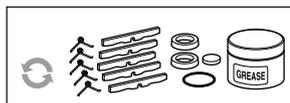
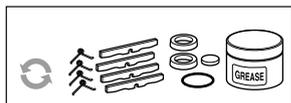
For motors	Order code
P1V-S012AC / DC (to serial no 948688)	<b>9121720608</b>
P1V-S012AC / DC (from serial no 948689)	<b>9121720637</b>
P1V-S020A• / D•	<b>9121720609</b>
P1V-S030A• / D•	<b>9121720610</b>
P1V-S060ACE00	<b>9121720611</b>
P1V-S060AC400	<b>9121720611</b>
P1V-S060AC350	<b>9121720611</b>
P1V-S060AC270	<b>9121720611</b>
P1V-S060AC170	<b>9121720611</b>
P1V-S060AC072	<b>9121720611</b>
P1V-S060AC063	<b>9121720611</b>
P1V-S060AC048	<b>9121720612</b>
P1V-S060AC030	<b>9121720612</b>
P1V-S060AC015	<b>9121720612</b>
P1V-S060AC010	<b>9121720612</b>
P1V-S090ACC00	<b>On request</b>
P1V-S090AC350	<b>On request</b>
P1V-S090AC270	<b>On request</b>
P1V-S090AC170	<b>On request</b>
P1V-S090AC063	<b>On request</b>
P1V-S090AC048	<b>On request</b>
P1V-S090AC030	<b>On request</b>
P1V-S120A•800	<b>9121720613</b>
P1V-S120A•270	<b>9121720613</b>
P1V-S120A•110	<b>9121720613</b>
P1V-S120A•078	<b>9121720614</b>
P1V-S120A•032	<b>9121720614</b>
P1V-S120A•012	<b>9121720614</b>

• : 0 or D, C or E

## P1V-S Stainless Steel Air Motors

### Service kits

The following kits are available for the basic motors, consisting of vanes, (springs), silencers, O-rings, seals and 50 g of grease. (USDA-H1 approved)



### Optional function "Z" and "F"

#### Service kits, spring-loaded vanes for intermittent lubrication-free operation

For motors	Order code
P1V-S012AZ / DZ (to serial no 948688)	9121720615
P1V-S012AZ / DZ (from serial no 948689)	9121720638
P1V-S020A• / D•	9121720616
P1V-S030A• / D•	9121720617
P1V-S060AZE00	9121720618
P1V-S060AZ400	9121720618
P1V-S060AZ350	9121720618
P1V-S060AZ270	9121720618
P1V-S060AZ170	9121720618
P1V-S060AZ072	9121720618
P1V-S060AZ048	9121720619
P1V-S060AZ072	9121720619
P1V-S060AZ063	9121720619
P1V-S060AZ010	9121720619
P1V-S090AZC00	On request
P1V-S090AZ350	On request
P1V-S090AZ270	On request
P1V-S090AZ170	On request
P1V-S090AZ063	On request
P1V-S090AZ048	On request
P1V-S090AZ030	On request
P1V-S120A•800	9121720620
P1V-S120A•270	9121720620
P1V-S120A•110	9121720620
P1V-S120A•078	9121720621
P1V-S120A•032	9121720621
P1V-S120A•012	9121720621

• : Z or F, M or G

### Optional function "M" and "G"

#### Service kits, spring-loaded vanes for continuous lubrication-free operation

For motors	Order code
P1V-S012AM / DM (to serial no 948688)	9121720622
P1V-S012AM / DM (from serial no 948689)	9121720639
P1V-S020A• / D•	9121720623
P1V-S030A• / D•	9121720624
P1V-S060AME00	9121720625
P1V-S060AM400	9121720625
P1V-S060AM270	9121720625
P1V-S060AM170	9121720625
P1V-S060AM072	9121720625
P1V-S060AM048	9121720626
P1V-S060AM030	9121720626
P1V-S060AM010	9121720626
P1V-S090AMC00	On request
P1V-S090AM350	On request
P1V-S090AM270	On request
P1V-S090AM170	On request
P1V-S090AM063	On request
P1V-S090AM048	On request
P1V-S090AM030	On request
P1V-S120A•800	9121720627
P1V-S120A•270	9121720627
P1V-S120A•110	9121720627
P1V-S120A•078	9121720628
P1V-S120A•032	9121720628
P1V-S120A•012	9121720628

### Service kits for brake module for motors with brakes

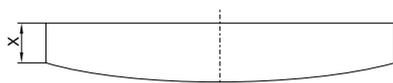
For motors	Order code
P1V-S020AD and P1V-S030AD	P1V-6/446096C
P1V-S120AD	P1V-6/4460961B

Comment: To perform a full service on a brake motor, you will need a normal service kit as well as a service kit for the brake module.

## P1V-M Robust Air Motors Black Housing

### Lubrication and service life

The first service is due after approximately 500 hours of operation. After the first service, the service interval is determined by the degree of vane wear\*. The table below shows new dimensions and the minimum dimensions of worn vanes.



Air motors	Dimensions on new vanes X [mm]	Minimum dimensions on vane X [mm]
<b>P1V-M020</b>	8,5	6,5
<b>P1V-M040</b>	7,0	5,0
<b>P1V-M060</b>	8,0	6,0

### Intermittent operation of motors with standard vanes, oil free lubrication

Duty cycle :	70%
Max. duration of intermittent use :	15 minutes
Filtration 40 µm :	750 hours of operation*
Filtration 5 µm :	1 000 hours of operation*

### Continuous operation of motors with standard vanes, with lubrication

Duty cycle :	Continuous
Quantity of oil :	1 drop per m <sup>3</sup> of air
Filtration 40 µm :	1 000 hours of operation*
Filtration 5 µm :	2 000 hours of operation*

**NOTE!** The grease in the planetary gearbox must be checked once in a year and be changed if necessary. (Molycote BR2+)

### Service kits

The following kits are available for the basic motors, consisting of vanes and (springs).

#### Service kits, vanes for intermittent lubrication operation, option "0"



For motors	Order code
P1V-M020	<b>P1V-6/831297A</b>
P1V-M040	<b>P1V-6/831298A</b>
P1V-M060	<b>P1V-6/831299A</b>

#### Service kits, vanes for intermittent lubrication operation, option "Z"

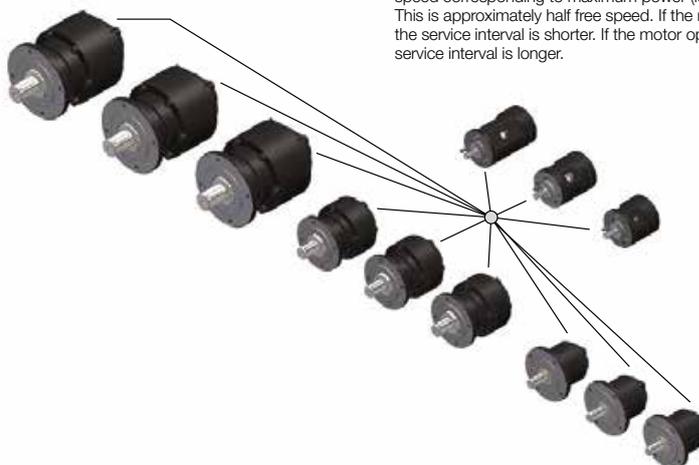


For motors	Order code
P1V-M020	<b>Consult Factory</b>
P1V-M040	<b>Consult Factory</b>
P1V-M060	<b>Consult Factory</b>

### Spare parts

Robust motors	Order code
P1V-M020	<b>Obsolete</b>
P1V-M040	<b>Obsolete</b>
P1V-M060	<b>Obsolete</b>
Gear boxes with flange	
A0A00 (1 stage)	<b>Obsolete</b>
A0290 (1 stage)	<b>Obsolete</b>
A0150 (1 stage)	<b>Obsolete</b>
A0081 (2 stages)	<b>Obsolete</b>
A0041 (2 stages)	<b>Obsolete</b>
A0021 (2 stages)	<b>Obsolete</b>
A0009 (3 stages)	<b>Obsolete</b>
A0006 (3 stages)	<b>Obsolete</b>
A0003 (3 stages)	<b>Obsolete</b>

\* The following normal service intervals should be applied in order to guarantee problem-free operation in air motors working continuously at load speeds. The specified hours of operation apply when the motor is running at the speed corresponding to maximum power (load speed). This is approximately half free speed. If the motor operates at higher speeds, the service interval is shorter. If the motor operates at lower speeds, the service interval is longer.



## P1V-M - Robust Air Motors Grey Housing

### Lubrication and service life

The first service is due after approximately 500 hours of operation. After the first service, the service interval is determined by the degree of vane wear\*. The table below shows new dimensions and the minimum dimensions of worn vanes.



Air motors	Dimensions on new vanes X [mm]	Minimum dimensions on vane X [mm]
P1V-M020	8,5	6,5
P1V-M040	7,0	5,0
P1V-M060	8,0	6,0
P1V-M090	X	X
P1V-M120	X	X

### Spare parts

For motor with Z optional function, please consult factory

Motor	Spare parts Order Code	
	Air Motor (1)	Gear Box (2)
P1V-M020C0230	P1V-M/202193A	P1V-M/202202B
P1V-M020C0146	P1V-M/202193A	P1V-M/202202D
P1V-M020C0054	P1V-M/202193A	P1V-M/202202G
P1V-M020C0034	P1V-M/202193B	P1V-M/202202C
P1V-M020C0021	P1V-M/202193B	P1V-M/202202E
P1V-M020C0012	P1V-M/202193B	P1V-M/202202F
P1V-M020C0008	P1V-M/202193B	P1V-M/202202H
P1V-M020C0003	P1V-M/202193B	P1V-M/202202I
P1V-M040C0230	P1V-M/202194A	P1V-M/202202B
P1V-M040C0146	P1V-M/202194A	P1V-M/202202D
P1V-M040C0054	P1V-M/202194A	P1V-M/202202G
P1V-M040C0034	P1V-M/202194B	P1V-M/202202C
P1V-M040C0021	P1V-M/202194B	P1V-M/202202E
P1V-M040C0012	P1V-M/202194B	P1V-M/202202F
P1V-M040C0008	P1V-M/202194B	P1V-M/202202H
P1V-M060C0230	P1V-M/202179A	P1V-M/202202B
P1V-M060C0146	P1V-M/202179A	P1V-M/202202D
P1V-M060C0054	P1V-M/202179A	P1V-M/202202G
P1V-M060C0034	P1V-M/202179B	P1V-M/202202C
P1V-M060C0021	P1V-M/202179B	P1V-M/202202E
P1V-M060C0012	P1V-M/202179B	P1V-M/202202F
P1V-M090C0245	P1V-M/202409A	P1V-M/807015B
P1V-M090C0156	P1V-M/202409B	P1V-M/807015C
P1V-M090C0058	P1V-M/202409A	P1V-M/807015D
P1V-M090C0036	P1V-M/202409B	P1V-M/807015E
P1V-M090C0023	P1V-M/202409B	P1V-M/807015F
P1V-M090C0013	P1V-M/202409A	P1V-M/807015G
P1V-M090C0009	P1V-M/202409B	P1V-M/807015H
P1V-M090C0004	P1V-M/202409B	P1V-M/807015I
P1V-M120C0245	P1V-M/202457A	P1V-M/807015B
P1V-M120C0156	P1V-M/202457B	P1V-M/807015C
P1V-M120C0058	P1V-M/202457A	P1V-M/807015D
P1V-M120C0036	P1V-M/202457B	P1V-M/807015E
P1V-M120C0023	P1V-M/202457B	P1V-M/807015F

### Service kits

The following kits are available for the basic motors, consisting of vanes.



#### Service kits, vanes for intermittent lubrication operation, option "0"

For motors	Order code
P1V-M020	P1V-6/4462971A
P1V-M040	P1V-6/4462981A
P1V-M060	P1V-6/4462991A
P1V-M090	P1V-6/4449171A
P1V-M120	P1V-6/4449181A

The following kits are available for the basic motors, consisting of vanes and springs.



#### Service kits, vanes for intermittent lubrication operation, option "Z"

For motors	Order code
P1V-M020	P1V-6/4449144B
P1V-M040	P1V-6/4449154B
P1V-M060	P1V-6/4449164B
P1V-M090	P1V-6/4449174B
P1V-M120	P1V-6/4449184B

\* The following normal service intervals should be applied to in order to guarantee problem-free operation in air motors working at load speeds. The specified hours of operation apply when the motor is running at the speed corresponding to maximum power (load speed). This is approximately half free speed. If the motor operates at higher speeds, the service interval is shorter. If the motor operates at lower speeds, the service interval is longer.



## P1V-A - Air Motors Grey Housing

### Lubrication and service life

Oil and oil mist are things which one tries to avoid to get the best possible working environment. In addition, purchasing, installation and maintenance of oil mist equipment costs money and, above all, time to achieve optimum lubrication effect.

The P1V-A motor is equipped with vanes for intermittent operation as standard for most common applications.

### Service interval



The first service is due after approximately 500 hours of operation. After the first service, the service interval is determined by the degree of vane wear.

The following normal service intervals should be applied to in order to guarantee problem-free operation in air motors working continuously at load speeds.

### Intermittent lubrication operation

Duty cycle	70%
Max. duration of intermittent use	15 minutes
Oil volume	1 drop oil/Nm <sup>3</sup>
Filtering 40 µm	app. 750 hours operation
Filtering 5 µm	app. 1,000 hours operation

### Continuous lubrication operation

Oil volume	1 drop oil/Nm <sup>3</sup>
Filtering 40 µm	app. 1,000 hours operation
Filtering 5 µm	app. 2,000 hours operation

### Continuous lubrication operation

Oil volume	Oil free
Filtering 40 µm	app. 750 hours operation
Filtering 5 µm	app. 1,000 hours operation

### Standard vanes (0, D):

For intermittent lubrication-free operation.

They can operate 70% of the time for up to 15 minutes without lubrication.

With lubrication, these motors can operation 100% of the time.

### "Black" vanes (C, E):

For continuous lubrication-free operation.

(To obtain the longest possible service life, we recommend no oil in the air.)

### Service kits

The following kits are available for the basic motors, consisting of vanes, O-rings and springs:

Motor type	Motor power Watt	Order code	
		Vanes for intermittent lubrication operation, options "O & D"	Vanes for continuous lubrication operation, options "C & E"
P1V-A160A0900	1600	P1V-6/4450331B	P1V-6/4450332B
P1V-A160D0300	1600	P1V-6/4450331D	P1V-6/4450332D
P1V-A160B0140	1600	P1V-6/4450331E	P1V-6/4450332E
P1V-A160B.....	1600	P1V-6/4450331B	P1V-6/4450332B
P1V-A160H.....	1600	P1V-6/4450331B	P1V-6/4450332B
P1V-A160F.....	1600	P1V-6/4450331B	P1V-6/4450332B
P1V-A160G.....	1600	P1V-6/4450331B	P1V-6/4450332B
P1V-A160D.....	1600	P1V-6/4450331B	P1V-6/4450332B
P1V-A160E.....	1600	P1V-6/4450331B	P1V-6/4450332B
P1V-A320A0700	3200	P1V-6/4450341B	P1V-6/4450342B
P1V-A320D0300	3200	P1V-6/4450341D	P1V-6/4450342D
P1V-A320B0140	3200	P1V-6/4450341E	P1V-6/4450342E
P1V-A320B0060	3200	P1V-6/4450341B	P1V-6/4450342B
P1V-A320H.....	3200	P1V-6/4450341B	P1V-6/4450342B
P1V-A320F.....	3200	P1V-6/4450342B	P1V-6/4450342B
P1V-A320G.....	3200	P1V-6/4450341B	P1V-6/4450342B
P1V-A320D.....	3200	P1V-6/4450341B	P1V-6/4450342B
P1V-A320E.....	3200	P1V-6/4450341B	P1V-6/4450342B
P1V-A500A0600	5000	P1V-6/4450351B	P1V-6/4450352B
P1V-A500D0300	5000	P1V-6/4450351D	P1V-6/4450352D
P1V-A500B0145	5000	P1V-6/4450351E	P1V-6/4450352B
P1V-A500H.....	5000	P1V-6/4450351B	P1V-6/4450352B
P1V-A500F.....	5000	P1V-6/4450351B	P1V-6/4450352B
P1V-A500G.....	5000	P1V-6/4450351B	P1V-6/4450352B
P1V-A500D.....	5000	P1V-6/4450351B	P1V-6/4450352B
P1V-A500E.....	5000	P1V-6/4450351B	P1V-6/4450352B
P1V-A600A0700	6000	P1V-6/4450351B	P1V-6/4450352B
P1V-A600D0350	6000	P1V-6/4450351D	P1V-6/4450352D
P1V-A600B0160	6000	P1V-6/4450351E	P1V-6/4450352E
P1V-A900A0600	9000	P1V-6/440246C	-
P1V-AJ00A0600	18000	P1V-6/440246B	-

..... Rest of the air motor order code

For more information about our maintenance services, please contact your local parker sales office.

## PRO - PRN Rotary Actuators



### PRO Miniature Series

#### Maintenance kits

The maintenance kit consists in the vane shaft, shoe seal and shaft 'O' rings

Single vane		Double vane	
<b>PROA3S</b>	<b>PRNA3S-PS</b>	<b>PROA3D</b>	<b>PRNA3D-PS</b>
<b>PROA10S</b>	<b>PRNA10S-PS</b>	<b>PROA10D</b>	<b>PRNA10D-PS</b>
<b>PROA20S</b>	<b>PRNA20S-PS</b>	<b>PROA20D</b>	<b>PRNA20D-PS</b>
<b>PRO30SE</b>	<b>PRN30S-PS</b>	<b>PRO30DE</b>	<b>PRN30D-PS</b>

### PRN Miniature Series

#### Maintenance kits

The maintenance kit consists in the vane shaft, shoe seal and shaft 'O' rings

Single vane		Double vane	
<b>PRNA1S</b>	<b>PRNA1S-PS</b>	<b>PRNA1D</b>	<b>PRNA1D-PS</b>
<b>PRNA3S</b>	<b>PRNA3S-PS</b>	<b>PRNA3D</b>	<b>PRNA3D-PS</b>
<b>PRNA10S</b>	<b>PRNA10S-PS</b>	<b>PRNA10D</b>	<b>PRNA10D-PS</b>
<b>PRNA20S</b>	<b>PRNA20S-PS</b>	<b>PRNA20D</b>	<b>PRNA20D-PS</b>
<b>PRN30SE</b>	<b>PRN30S-PS</b>	<b>PRN30D E</b>	<b>PRN30D-PS</b>

### PRN High Torque Series

#### Maintenance kits

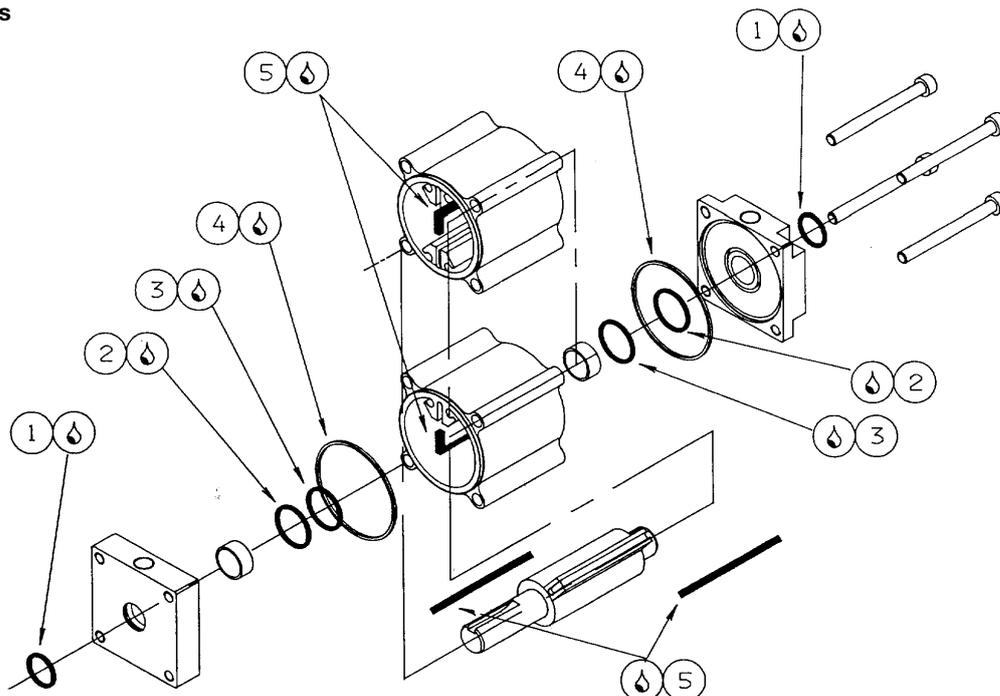
The maintenance kit consists in the vane shaft, shoe seal and shaft 'O' rings

Single vane		Double vane	
<b>PRN050SE</b>	<b>PRN50S-PS</b>	<b>PRN50DE</b>	<b>PRN50D-PS</b>
<b>PRN150SE</b>	<b>PRN150S-PS</b>	<b>PRN150DE</b>	<b>PRN150D-PS</b>
<b>PRN300SE</b>	<b>PRN300S-PS</b>	<b>PRN300DE</b>	<b>PRN300D-PS</b>
<b>PRN800SE</b>	<b>PRN800S-PS</b>	<b>PRN800DE</b>	<b>PRN800D-PS</b>

PV Rotary Actuators



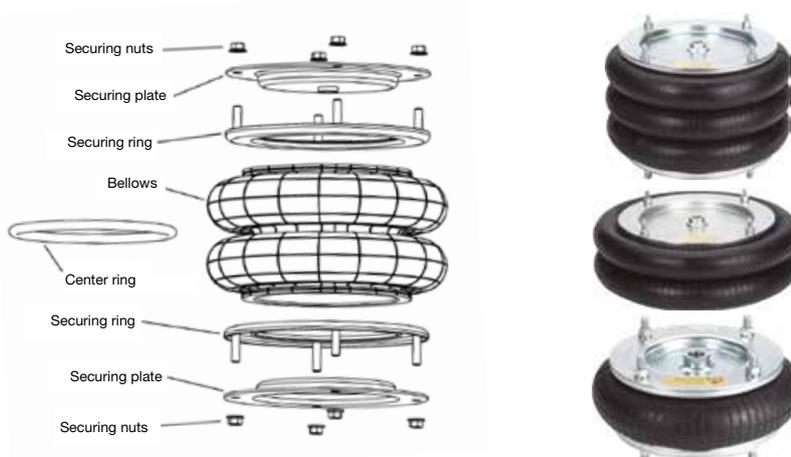
Seal kits



Lubricate with grease Parker ref: **3099**

Size	Type	Order code	Components				
			1 Shaft seal	2 Teflon seal	3 Shoulder seal	4 'O' ring	5 vane seal
10	Single	<b>PSK-PV10</b>	2	2	2	2	2
10	Double	<b>PSK-PV10D</b>	2	2	2	2	4
11	Single	<b>PSK-PV11</b>	2	2	2	2	2
11	Double	<b>PSK-PV11D</b>	2	2	2	2	4
22	Single	<b>PSK-PV22</b>	2	2	2	2	2
22	Double	<b>PSK-PV22D</b>	2	2	2	2	4
33	Single	<b>PSK-PV33</b>	2	2	2	2	2
33	Double	<b>PSK-PV33D</b>	2	2	2	2	4

### Air Bellows



### Spare parts

Ø (mm) (inch size)	Type	Nb. conv.	For		Order Code									
			Standard bellow	High temp. bellow	Standard rubber membrane	High temp. rubber membrane	Qty *	Plate without air port	Qty *	Plate with air port	Qty *	Clamping support	Qty *	Central ring
Ø 70 (2.3/4")	2.3/4 x 1	1	9109025	9109525	9109144	9109302	1	9109065	1	9109181	2	9109193	-	-
	2.3/4 x 2	2	9109009	9109509	9109152	9109303							1	9109209
	2.3/4 x 3	3	9109010	9109510	9109090	9109304							2	
Ø 110 (4.1/2")	4.1/2 x 1	1	9109400	9109500	9109145	9109288	1	9109188	1	9109187	2	9109186	-	-
	4.1/2 x 2	2	9109401	9109501	9109189	9109289							2	9109184
	4.1/2 x 3	3	9109402	9109502	9109147	9109287							3	
Ø 150 (6") Alu.	6 x 1	1	9109004A	9109204A	9109191	9109391	1	9109070A	1		2	9109080A	-	-
	6 x 2	2	9109001A	9109201A	9109091	9109291							1	9109098
	6 x 3	3	9109007A	9109207A	9109149	9109286							2	
Ø 150 (6") Steel	8 x 1	1	9109004	9109204	9109191	9109391	1	9109070	1	9109075	2	9109080	-	-
	8 x 2	2	9109001	9109201	9109091	9109291							1	9109098
	8 x 3	3	9109007	9109207	9109149	9109286							2	
Ø 200 (8")	8 x 1	1	9109014	9109214	9109192	9109392	1	9109071	1	9109076	2	9109086	-	-
	8 x 2	2	9109011	9109211	9109092	9109292							1	9109099
	8 x 3	3	9109017	9109217	9109151	9109300							2	
Ø 250 (10")	10 x 1	1	9109024	9109224	9109146	9109393	1	9109072	1	9109077	2	9109087	-	-
	10 x 2	2	9109021	9109221	9109093	9109293							1	9109100
	10 x 3	3	9109031	9109231	9109094	9109294							2	
Ø 300 (12")	12 x 1	1	9109044	9109244	9109195	9109395	1	9109073	1	9109078	2	9109088	-	-
	12 x 2	2	9109041	9109241	9109095	9109295							1	9109101
	12 x 3	3	9109051	9109251	9109096	9109296							2	
Ø 370 (14.1/2")	4.1/2 x 1	1	9109064	9109264	9109197	9109397	1	9109074	1	9109178	2	9109189	-	-
	4.1/2 x 2	2	9109061	9109261	9109097	9109297							1	9109170
	4.1/2 x 3	3	9109069	9109269	9109148	9109301							2	
Ø 410 (16")	16 x 1	1	9109026	9109226	9109142	9109284	1	9109074	1	9109178	2	9109089	-	-
	16 x 2	2	9109171	9109271	9109199	9109298							1	9109170
	16 x 3	3 *	9109177	9109277	9109200	9109299							2	
Ø 550 (21.1/2")	21.1/2 x 2	2	9109156	9109250	9109190	9109290	1	9109068		9109167	2	9109183	1	9109185
	21.1/2 x 2	2 **		9109253				/	/	-	/	-		
Ø 660 (26")	26 x 2	2	9109159	/	9109198	/	1	9109155		9109157	2	9109183	1	9109185
	26 x 2	2 **		/				/	/	-	/	-		

Nuts are not considered as spare parts

\* bag quantity is 1 piece

\*\* Air bellows less plates

**Note:** For stainless steel spare parts, please consult factory.



C05 Pancake Cylinders



**Non repairable**  
Replace complete cylinder

P1G Cartridge Cylinders



**Non repairable**  
Replace complete cylinder

P1Q Compact Cylinders



**Non repairable**  
Replace complete cylinder

P1J Compact Cylinders



**Non repairable**  
Replace complete cylinder

P1A Mini ISO 6432



**Non repairable**  
Replace complete cylinder

P1S Stainless Steel Cylinders  
ISO 6432 - 10mm - 25mm bore



**Non repairable**  
Replace complete cylinder

Round Cylinders - R Series

Ø32 - Ø63



**Non repairable**  
Replace complete cylinder

Round Cylinders - R Series

Ø10 - Ø25



**Non repairable**  
Replace complete cylinder

MC-SC Shock Absorbers



**Non repairable**  
Replace shock absorber

**P5GA Grippers**



**Non repairable**  
Replace complete gripper

**P5GB Grippers**



**Non repairable**  
Replace complete gripper

**P5GD Grippers**



**Non repairable**  
Replace complete gripper

**P5GL Grippers**



**Non repairable**  
Replace complete gripper

**P5RS Rotating Tables**



**Non repairable**  
Replace complete table

**P5SS Precision Slide Tables**



**Non repairable**  
Replace complete table

3D Linear Units



**Spares No Longer Available**

3H Grippers



**Spares No Longer Available**

Short Stroke Units

(M16 and M25)



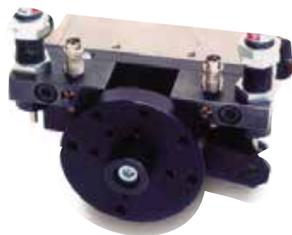
**Spares No Longer Available**

3D Base Rotate Units



**Spares No Longer Available**

3D Wrist Rotate Units



**Spares No Longer Available**

CXP Cylinders



**Spares No Longer Available**

P5SP Precision Slide Table



**Spares No Longer Available**

3F Carrier Unit



**Spares No Longer Available**



# Control Devices



### Viking Xtreme

For solenoid operator and coil, please refer to **15mm and 22mm** solenoid range at the end of this chapter



Accessories P2LA	Type	Weight kg	Order code
	<b>Blanking plate, P2LA</b> for Pressure bar	0,05	<b>9121658074</b>
	<b>Assembly screws, P2LA</b> in stainless steel for valve	0,02	<b>9121658043</b>
	<b>Assembly screws, P2LA</b> in stainless steel for blanking plate	0,01	<b>9121658044</b>
	<b>O-ring kit, P2LA</b> O-rings between valve and manifold bar/Pressure bar	0,01	<b>9121658046</b>

### Adaptor for 15mm solenoid operator



Description	Order code
For 15mm solenoid operator	<b>P2FA22-15</b>

### Screws Self tapping Ø3 26,2mm length (stainless steel) for mounting 15mm solenoid

Description	Order code
Set of 10 screws	<b>P2E-KD027SS3</b>

### Gaskets for mounting between power valves and 15mm solenoid actuators

Description	Order code
Set of 10 gaskets	<b>P2LXSK1</b>

### Spare kit



Description	Order code
for 5/2 P2LAX valves	<b>P2LAXSK1</b>
for 5/3 P2LAX valves	<b>P2LAXSK2</b>
for 5/2 & 5/3 P2L BX valves	<b>P2L BXSK1</b>
for 5/2 & 5/3 P2L CX valves	<b>P2L CXDXSK1</b>
for 5/2 & 5/3 P2L DX valves	<b>P2L CXDXSK1</b>

## B Valves

B3, B4 and B5 Spool/Body repair kits contain:

- Spool
- Spool seals
- Lip seal – operator pistons
- Gaskets
- Spool springs
- Grease packet

### B3 series valves

3/2 solenoid and remote air pilot operated valves -Spool/Body Repair kit	<b>PS2971F</b>
5/2 solenoid and remote air pilot operated valves -Spool/Body Repair kit	<b>PS2901F</b>
5/3 APB solenoid and remote pilot operated valves - Spool/Body Repair kit	<b>PS2902F</b>



For solenoid operator and coil, refer to **15mm** solenoid range at the end of this chapter

### Manifold gasket kits

3/2 IEM Gasket kit (10 valve/manifold gaskets)	<b>PS2980F</b>
5/2 IEM Gasket kit (10 valve/manifold gaskets)	<b>PS2981F</b>

### B4 series valves

3/2 solenoid and remote air pilot operated valves - Spool/Body Repair kit	<b>PS4571F</b>
5/2 solenoid and remote air pilot operated valves - Spool/Body Repair kit	<b>PS4501F</b>
5/3 solenoid and remote pilot operated valves – APB Spool/Body Repair kit	<b>PS4502F</b>
5/3 solenoid and remote pilot operated valves – CE Spool/Body repair kit	<b>PS4503F</b>
5/3 solenoid and remote pilot operated valves – PC Spool/Body repair kit	<b>PS4504F</b>



For solenoid operator and coil, refer to **15mm** solenoid range at the end of this chapter

### Manifold gasket Kits.

3/2 IEM Gasket Kit (10 valve/manifold gaskets)	<b>PS4580F</b>
5/2 IEM Gasket Kit (10 valve/manifold gaskets)	<b>PS4581F</b>

### B5 series valves

3/2 solenoid and remote air pilot operated valves - Spool/Body Repair kit	<b>PS2871P</b>
5/2 solenoid and remote air pilot operated valves - Spool/Body Repair kit	<b>PS2801P</b>
5/3 solenoid and remote pilot operated valves – APB Spool/Body Repair kit	<b>PS2802P</b>
5/3 solenoid and remote pilot operated valves – CE Spool/Body repair kit	<b>PS 2803P</b>
5/3 solenoid and remote pilot operated valves – PC Spool/Body repair kit	<b>PS2804P</b>



For solenoid operator and coil, refer to the **22mm** solenoid range at the end of this chapter

### Manifold gasket Kits.

3/2 & 5/2 IEM Gasket kit PS2884P (10 valve/manifold gaskets)	<b>PS2884P</b>
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## Gaskets for mounting between power valves and 15mm solenoid actuators

Description	Order code
Set of 10 gaskets	<b>P2LXSK1</b>

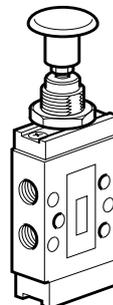


**Midget & Intermediate Valves**

**Service and Replacement Parts**

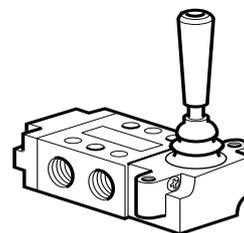
**B43 Series Manually Operated Valves**

Order code	Actuator	Replacement actuator	Repair kit
<b>B43003BXS</b>	Button	<b>43004BX-100</b>	
<b>B43004BXS</b>	Button		
<b>B43004HXS</b>	Button, Push/Pull	<b>43004H-100</b>	Body seal
<b>B43003LS</b>	Lockdown lever	<b>43004L-200</b>	<b>43007A</b>
<b>B43004LS</b>	Lockdown lever		



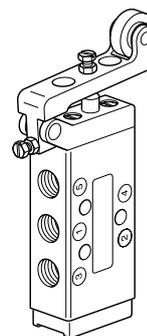
**B53 Series Manually Operated Valves**

Order code	Actuator	Replacement actuator	Repair kit
<b>B53003HXS</b>	Button		
<b>B53004HXS</b>	Button		
<b>B53003HX</b>	Button, Push/Pull	<b>53004HX-100</b>	Body seal
<b>B53004HX</b>	Button, Push/Pull		
<b>B53004HXX</b>	Button, Self centring	<b>53007</b>	
<b>B53004HXY</b>	Button, Self centring		
<b>B53004HXZ</b>	Button, Self centring		
<b>B53003FS</b>	Foot	<b>53004F-100</b>	
<b>B53004FS</b>	Foot		
<b>B53003LS</b>	Lever	<b>53004L-198</b>	
<b>B53004LS</b>	Lever		
<b>B53003LT</b>	Lever, 2 positions	<b>53004L-196</b>	Body seal
<b>B53004LT</b>	Lever, 2 positions		<b>53007</b>
<b>B53004L</b>	Lever, 3 positions	<b>53004L-100</b>	Lever kit
<b>B53004LW</b>	Lever, 3 positions		<b>53004L-300R</b>
<b>B53004LX</b>	Lever, Self centring	<b>53004L-198</b>	
<b>B53004LY</b>	Lever, Self centring		



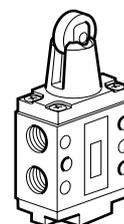
**B43 Series Mechanically Operated Valves**

Order code	Actuator	Replacement actuator	Repair kit
<b>B43003CS</b>	Plunger	<b>43004C-100</b>	
<b>B43004CS</b>	Plunger		
<b>B43003RS</b>	Roller Lever	<b>43004R-200</b>	Body seal
<b>B43004RS</b>	Roller Lever		<b>43007A</b>



**B53 Series Mechanically Operated Valves**

Order code	Actuator	Replacement actuator	Repair kit
<b>B53003CS</b>	Plunger	<b>53004C-100</b>	
<b>B53004CS</b>	Plunger		
<b>B53003RS</b>	Roller	<b>53004R-100</b>	Body seal
<b>B53004RS</b>	Roller		<b>53007</b>



## Heavy Duty Poppet Valves

### Seal Repair Kit

Order Code

107

For solenoid operator and coil, refer to **22mm** solenoid range at the end of this chapter.



## VA Valves



### Service and Replacement Parts

#### VA Series Heavy Duty Valves

Order code	Repair Kit
9128674100	Body seals (6 pcs. 'O' Ring)

## G1/8 Poppet Valves



### Repair kits

Description	Order code
Mechanically, manually and air pilot operated valves	43608
Diaphragm operated valves	43608B

## Apollo ISO Valves

### Solenoid



Description	Order code
24VCD	<b>P2FP23N4C + P2FCA449</b>
24VAC	<b>P2FP23N4C + P2FCA442</b>
110VAC	<b>P2FP23N4C + P2FCA453</b>
220VAC	<b>P2FP23N4C + P2FCA457</b>



### Solenoid



Description	Order code
24VCD	<b>250CMTF</b>
24VAC	<b>250CMTA</b>
48VAC	<b>250CMTC</b>
110VAC	<b>250CMS</b>
220VAC	<b>250CMTL</b>

### Gaskets

for mounting between power valves and subbases



Description	Order code
for ISO 1 valves	<b>19104-9</b>
for ISO 2 valves	<b>29104-9</b>
for ISO 3 valves	<b>39104-9</b>

### Spares Kit



Description	Order code
for ISO 1 valves	<b>19107</b>
for ISO 2 valves	<b>29107</b>
for ISO 3 valves	<b>39107</b>



**ISO Valves - Flexflow**

**For solenoid operator and coil concerning:**

VG25-**E**xxxx / VG25-**XE**xxxx / VG25-**YE**xxxx  
 VG35-**E**xxxx / VG35-**XE**xxxx / VG35-**YE**xxxx  
 VG45-**E**xxxx / VG45-**XE**xxxx / VG45-**YE**xxxx

refer to **22mm** solenoid range at the end of this chapter

**For solenoid operator and coil concerning:**

VG25-**A**xxxx / VG25-**XA**xxxx / VG25-**YA**xxxx  
 VG35-**A**xxxx / VG35-**XA**xxxx / VG35-**YA**xxxx  
 VG45-**A**xxxx / VG45-**XA**xxxx / VG45-**YA**xxxx

refer to **30mm** CNOMO solenoid range at the end of this chapter



**VG25 Seals**



**VG25 Sleeve + Spool + Seal kit**  
 (all VG25 valves except 5/3 closed centre)

P2N-A6/S90066

**Valve to sub-base - VG25 seals (x10) kit**

P2N-A6/S90069

**VE35 Complete seals kit**



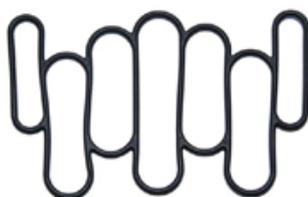
**VG35 Sleeve + Spool + Seal kit**  
 (all VG35 valves except 5/3 closed centre)

P2N-B6/S90070

**Valve to sub-base - VG35 seals (x10) kit**

P2N-B6/S90073

**VG45 Seals**



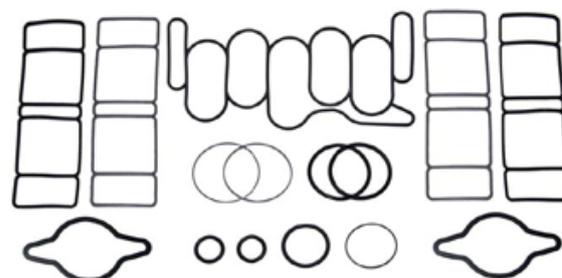
**VG45 Sleeve + Spool + Seal kit**  
 (only 5/2 VG45 valves)

P2N-C6/S90074

**Valve to sub-base - VG45 seals (x10) kit**

P2N-C6/S90077

**VE45 Complete seals kit**



9121558480

ISO Valves - DX1 - DX2 - DX3

Adaptor for 15mm solenoid operator



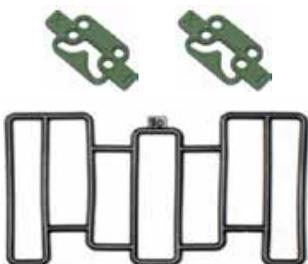
Description	Order code
For 15mm solenoid operator	58DX-70/6291

Cover Plate



Description	Order code
Batch of 20	JBDX00/020-A

External seals kit



Description	Order code
for DX1 valves	JJDX10-A
for DX2 valves	JJDX20-A
for DX3 valves	JJDX30-A

Gaskets



For mounting between power valves and solenoid actuators:

Description	Order code
Set of 20 gaskets	PPR-V20

Operator adapter



Description	Order code
Batch of 20	P2FNS



For solenoid operator and coil, refer to 15mm / 22mm / 30mm solenoid range at the end of this chapter

Cover Screws (batch of 40)



Description	Order code
for DX1 valves	JCVDX1
for DX2 valves	JCVDX2/3
for DX3 valves	JCVDX2/3

Complete seal kit

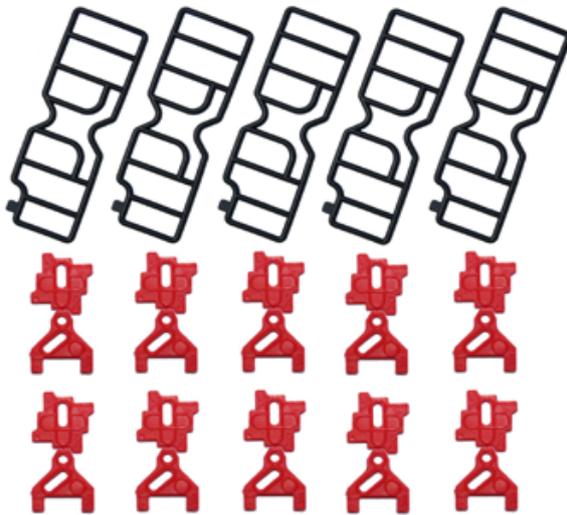


Description	Order code
for DX1 valves	JJDX15-A
for DX2 valves	JJDX25-A
for DX3 valves	JJDX35-A

**ISO Valves - DX01 - DX02**



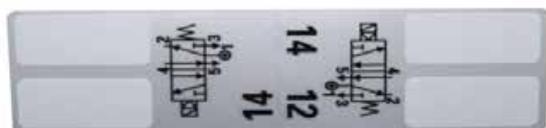
For solenoid operator and coil, refer to **15mm** solenoid range at the end of this chapter



Description	Order code
Seal kit for DX01 x 5 valve to sub-base gasket x 10 pilot supply selector	<b>PPR-V63</b>

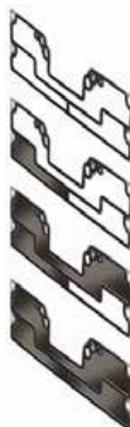
## Isys Micro

### Valve Labels - Set of 10



Description	Order code
5/2 single solenoid	PSM002E
5/2 double solenoid	PSM0022
5/3 double solenoid	PSM0025
Dual 3/2 double solenoid NC/NC	PSM002N
Dual 3/2 double solenoid NO/NO	PSM002P
Dual 3/2 double solenoid NC/NO	PSM002Q

### Internal manifold seal plate (x1)



Order code
PSM0001
PSM0002
PSM0003
PSM0004

### Manual override caps



Description	Order code
Set of 10	PSM0011

### Solenoid kit



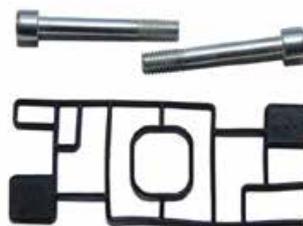
Description	Order code
24 VDC	PSM0010

### Manifold to manifold M3 screws



Description	Order code
Set of 10 M3 screws	PSM0014

### Valve to manifold gasket



Description	Order code
Set of 5 gaskets and 10 screws	PSM0012

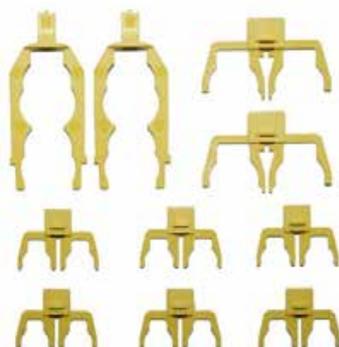
### M7 plugs for auxilliary and pilot pressure ports



Description	Order code
Set of 10 M7 plugs	PSM0013

## Moduflex Valves

### Clips



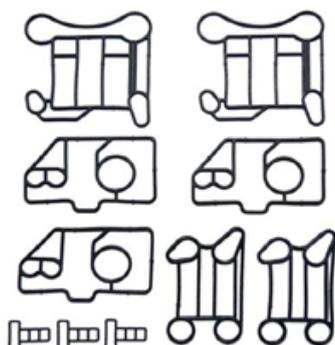
x 2 for size 2

x 2 for head & Intermediate module

x 6 for size 1

Description	Order code
Set of 10 Clips	<b>P2M2K0CA</b>

### External seal kit



Description	Order code
x 2 under valve size 2 x 3 inter island subbase x 2 under valve size 1 x 3 under solenoid pilot	<b>P2M2K0JA</b>

### Bus head module without module adaptor



Description	Order code
Profibus DP	<b>P2M2HBVP01600</b>
DeviceNet	<b>P2M2HBVD01600</b>
CANopen	<b>P2M2HBVC01600</b>

### Head Clip Covers



Description	Order code
Set of 10 clips cover for head P2M2HXT01	<b>P2M2K0HA</b>



### Valve Pilot

Description	Order code
Solenoid pilot - 24 VDC	<b>P2D8V32C5</b>
Pneumatic pilot	<b>P2M2K0PA</b>

### Valve size 1 module without solenoid & without subbase

Description	Order code
4/2 single solenoid valve	<b>P2M1X4ES</b>
4/2 double solenoid valve	<b>P2M1X4EE</b>
Double 3/2 NC/NC valve	<b>P2M1XDDEE</b>
Double 3/2 NO/NO valve	<b>P2M1XCDEE</b>
Double 3/2 NC/NO valve	<b>P2M1XEDEE</b>
Single 3/2 NC valve	<b>P2M1X3ES</b>
4/3 CE = double 3/2 NC/NC valve without exhaust check valve	<b>P2M1XGDEE</b>

### Valve size 2 module without solenoid & without subbase

Description	Order code
4/2 single solenoid valve	<b>P2M2X4ES</b>
4/2 double solenoid valve	<b>P2M2X4EE</b>
Double 3/2 NC/NC valve	<b>P2M2XDDEE</b>
Double 3/2 NO/NO valve	<b>P2M2XCDEE</b>
Double 3/2 NC/NO valve	<b>P2M2XEDEE</b>
Single 3/2 NC valve	<b>P2M2X3ES</b>
4/3 CE = double 3/2 NC/NC valve without exhaust check valve	<b>P2M2XGDEE</b>

### Isolation forks

Description	Order code
Set of 10 for solenoid pilot manual override	<b>P2M2K0FA</b>

**PS1 Interface**

**On Interface 3/2 or 4/2 single solenoid**

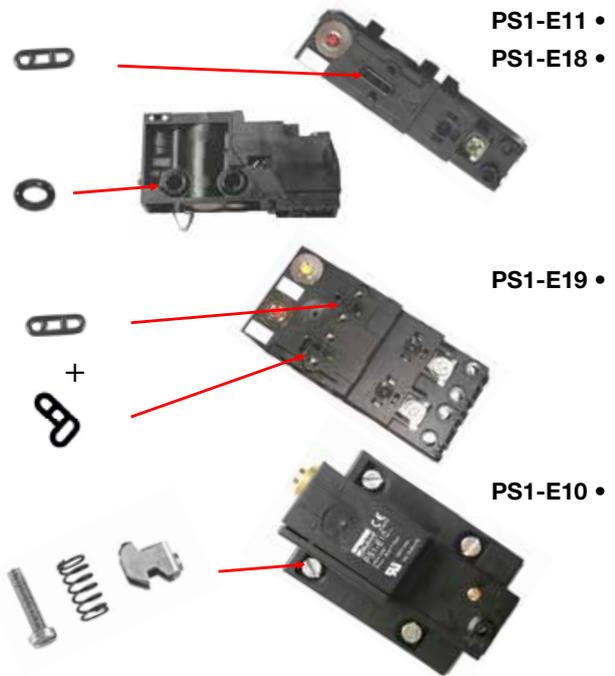
Description	Order code
Batch of 20 seals between valve bodies and 15mm solenoid or PVA-P111 connector	<b>PPR-V20</b>
Batch of 100 O-ring seals for pressure and exhaust commons	<b>PPR-L12</b>

**On Interface 4/2 double solenoid**

Description	Order code
Batch of 25 seals type A coming between valve body and 1 solenoid +25 seals type B coming between valve body and the other solenoid	<b>PPR-L13</b>

**On head interface**

Description	Order code
DIN rail clip assembly	<b>PPR-L09</b>



## PVL Inline Valves



### Spare mounting and assembly kits

	Description	Valve size	Port size	Order code
	Kit for sealing the inlet/exhaust common gallery including : - 3 common blanking plugs - 2 drilled and threaded rods - 2 screws for extended tie rod	PVL-B		<b>PVL-B1901</b>
		PVL-C		<b>PVL-C1901</b>
	Pack of 10 common blanking	PVL-B		<b>PVL-B1902</b>
		PVL-C		<b>PVL-C1902</b>

### Spare set of solenoid mounting screws

Type	Material	Ø (mm)	Length (mm)	Order code
Metric	Steel, passivated	M3	26	<b>P2E-KP026PM3*</b>

\* Sold by lot of 10 pieces

Valve series	Gaskets
PVL-A	<b>PPR-L21 obsolete</b>
PVL-B	<b>PPR-V20</b>
PVL-C	<b>PPR-V20</b>

Gaskets seal between pilot and valve body. Sold as one set of 20 gaskets.

Valve series	O-ring
PVL-A	<b>PPR-V30 obsolete</b>
PVL-B	<b>PPR-V23</b>
PVL-C	<b>PPR-V24</b>

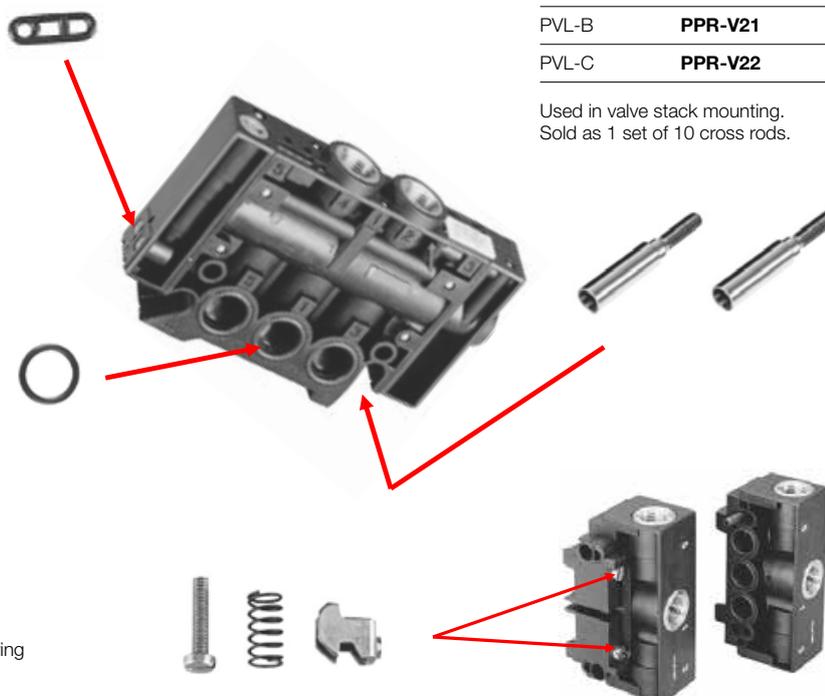
O-rings seal between stackable valve bodies. Sold as set of 30.

DIN rail clip assembly	PPR-L09
------------------------	---------

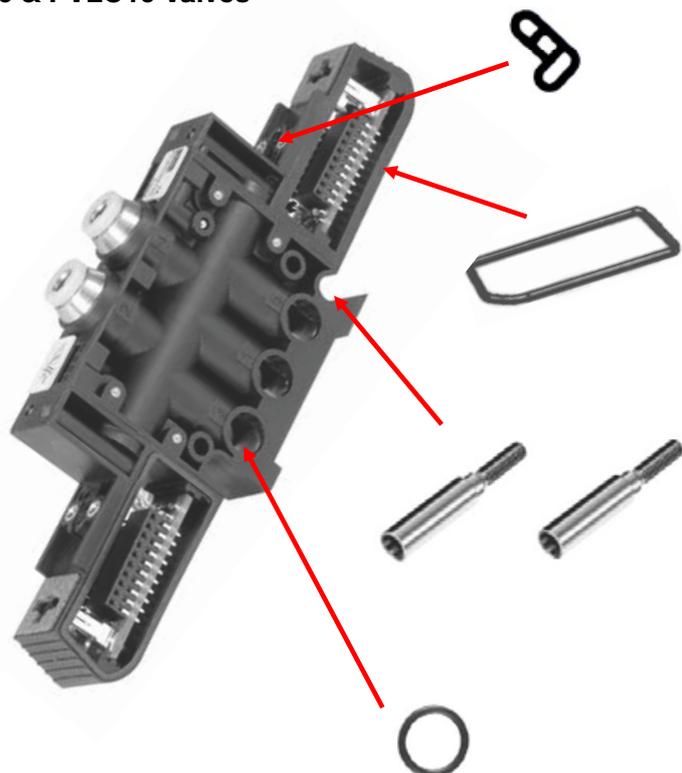
Assembly includes: clamp, screw and spring  
Sold as set of 20.

Valve series	Cross rods
PVL-A	<b>PPR-V31 obsolete</b>
PVL-B	<b>PPR-V21</b>
PVL-C	<b>PPR-V22</b>

Used in valve stack mounting.  
Sold as 1 set of 10 cross rods.



**PVLB10 & PVLC10 Valves**



Valve series	<b>O-rings</b>
PVL-B10	<b>PPR-V41</b>
PVL-C10	<b>PPR-V41</b>

Gaskets seal between solenoid pilot and valve body. Sold as one set of 50 gaskets.

Valve series	<b>O-rings</b>
PVL-B10	<b>PPR-V38</b>
PVL-C10	<b>PPR-L36 Obsolete</b>

Connector gaskets provide protection for PC board and 20-Pin connector. PPRV38 sold as one set of 20 gaskets.

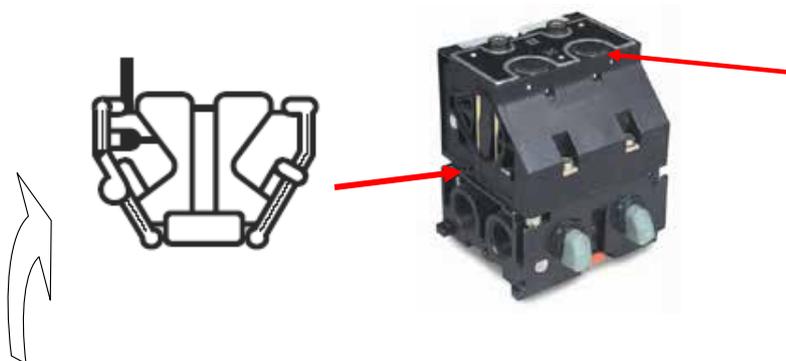
Valve series	<b>Cross rods</b>
PVL-B10	<b>PPR-V21</b>
PVL-C10	<b>PPR-V22</b>

Used in valve stack mounting. Sold as 1 set of 10 cross rods.

Valve series	<b>O-rings</b>
PVL-B10	<b>PPR-V23</b>
PVL-C10	<b>PPR-V24</b>

O-rings seal between stackable valve bodies. Sold in set of 30.

**PVD Everdure Ceramic Valves**



Set of 20 blanking plugs	<b>PPR-V27</b>
--------------------------	----------------

Set of 20 gaskets for mounting between power valves and solenoid actuators	<b>PPR-V20</b>
--	----------------

	Valve 4/2			Valve 3/2			Valve 2/2	
For mounting	Size 1/8	Size 1/4	Size 1/2	Size 1/4	Size 1/2	Size 1/4	Size 1/2	
Between subbase	<b>PVU-B14xx</b>	<b>PVU-C34xx</b>	<b>PVU-E14xx</b>	<b>PVU-C33xx</b>	<b>PVU-E13xx</b>	<b>PVU-C32xx</b>	<b>PVU-E12xx</b>	
and power valve	<b>PVD-B14xx</b>	<b>PVD-C34xx</b>	<b>PVD-E24xx</b>	<b>PVS-C33xx</b>	<b>PVS-E23xx</b>	<b>PVP-C32xx</b>	<b>PVP-E22xx</b>	
Batch of 10 gaskets	<b>PVR-V02</b>	<b>PVR-V28</b>	<b>PPR-V04</b>	<b>PPR-V29</b>	<b>PPR-V06</b>	<b>PPR-V29</b>	<b>PPR-V06</b>	

For mounting	Size 1/8	Size 1/4	Size 1/2	
Between subbase	<b>PVU-Bxxxx</b>	<b>PVU-Cxxxx</b>	<b>PVU-Exxxx</b>	+
Batch of 30 O-ring	<b>PVR-V07</b>	<b>PVR-V08</b>	<b>PPR-V09</b>	

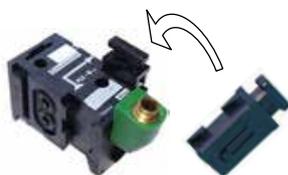


Logic Processing



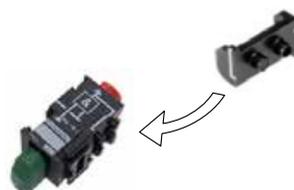
Inter module locks

Description	Order code
Batch of 50	<b>PPR-L06</b>
For components	
<b>PLE-B12</b>	<b>PLL-B12</b>
<b>PLK-B12</b>	<b>PLN-B12</b>



Circuit selectors for combinable logic elements

Description	Order code
Batch of 50	<b>PPR-L10</b>
For components	
<b>PLL-B12</b>	<b>PLN-B12</b>
<b>PLK-B12</b>	



O-rings for subbase mounted

Description	Order code
Batch of 100 (10 + 90)	<b>PPR-L04</b>
10 O-rings for port with filter	
90 O-rings for port without filter	
For components	
<b>PLJ-C10</b>	<b>PLK-C10</b>
<b>PLN-D10</b>	<b>PRF-A10</b>
<b>PLN-C10</b>	<b>PRT •••</b>
<b>PLL-C10</b>	



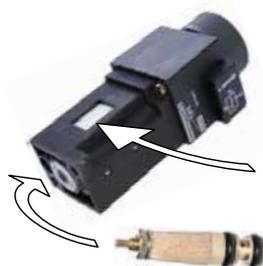
Rail clamping components

Description	Order code
Batch of 20	<b>PPR-L09</b>
For components	
<b>PSE-A12</b>	



Exhaust filter

Description	Order code
Batch of 20	<b>PPR-L20</b>
For components	
<b>PRT •••</b>	
<b>Exhaust Filter</b>	
Batch of 20	<b>PPR-L23</b>
For components	
<b>PRT •••</b>	



O-rings for sequencer components and combinable logic elements

Description	Order code
Batch of 100	<b>PPR-L11</b>
10 O-rings for port with filter	
90 O-rings for port without filter	
For components	
<b>PLL-B12</b>	<b>PLE-B12</b>
<b>PSB-A12</b>	<b>PSM-A12</b>
<b>PSE-A12</b>	<b>PLN-B12</b>
	<b>PSD-B12</b>
	<b>PLK-B12</b>
	<b>PSD-A12</b>



## Logic Processing

### Plugs for 3 or 4 port subbases

Description	Order code
Batch of 50	<b>PPR-L05</b>



### Inter module locks for 3 or 4 port subbases

Description	Order code
Batch of 50	<b>PPR-L07</b>

For components

**PZU-A12 PZU-B12**

**PZU-C12**



### Flat gaskets for step module and Interlock module

Description	Order code
Batch of 10	<b>PPR-L01</b>



For components

**PSB-A12 PSM-A12**

**PSV-A12**

### Flat gaskets for 4 port subbases

Description	Order code
Batch of 10	<b>PPR-L02</b>



For components

**PZU-B12 PLM-A12**

**PRD-A12**

### Clear plastic window

Description	Order code
Batch of 10	<b>PPR-X01</b>



For components

**PXV-F • • •**

### Mylar diaphragms for amplifier relays

Description	Order code
Batch of 10	<b>PPR-L08</b>

For components

**PRD-A12 PRD-A12**

PXB Control & Process Duty



PXB-B1XXX

PXB-B2XXX



Ø 4mm Instant straight connections

Normally non passing (NNP)		PXB-B1911	PXB-B2911
Normally passing (NP)		PXB-B1921	PXB-B2921



M5 thread connections

Normally non passing (NNP)		PXB-B1915	PXB-B2915
Normally passing (NP)		PXB-B1925	PXB-B2925



Ø 6mm Instant straight connections

Normally non passing (NNP)		PXB-B1916	PXB-B2916
Normally passing (NP)			PXB-B2926



Ø 4mm Instant swivel connections

Normally non passing (NNP)		PXB-B1912	PXB-B2912
Normally passing (NP)		PXB-B1922	PXB-B2922



Electrical switch bodies

Normally Open (NO)		ZB2-BE101
Normally Closed (NC)		ZB2-BE102

P2E Solenoid Operators

Spare Parts



**P2E-XXXXXX**

Used for :



50 + 50 Ref : **PPR-L35**

DX01 / DX02



X20 Ref : **PPR-V20**

PS1 (3/2) / PVL / PVD / P2V / P2L

X250 Ref : **PPR-L18**



25 + 25 Ref : **PPR-L13**

PS1 (4/2) / P25 / PVL-B10 / PVL-C10



X50 Ref : **PPR-V41**

PS1 (4/2) / P2S / PVL-B10 / PLV-C10



X10 Ref : **P2LXSK1**

P2L-A / P2LAX / P2LBX / P2LCX / P2LDX

Metric M3 26mm length (material : steel)

PS1 / PVL / PVD-B / DX01 / DX02

X10 Ref : **P2E-KP026PM3**



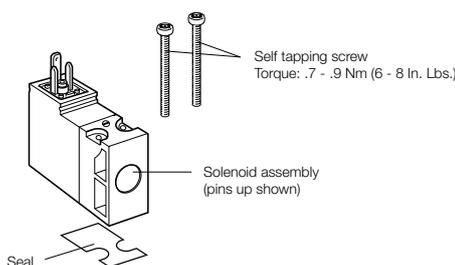
Self tapping O3 26,2mm length (stainless steel)

P2L-A / P2LAX / P2LBX / P2LCX / P2LDX

X10 Ref : **P2E-KD027SS3**

### 15mm Solenoid Operators

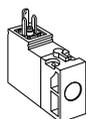
Electrical connection EN175301-803 C/ISO15217 (Ex DIN 43650C)



(Note! Mounting screws included in basic valve)

#### Solenoids 15 mm NC, standard

Voltage	Weight Kg	Order code Without manual override	Weight Kg	Order code Override, blue, non locking flush	Weight Kg	Order code Override, yellow, locking flush
12 VDC	0,038	<b>P2E-KV32B0</b>	0,038	<b>P2E-KV32B1</b>	0,038	<b>P2E-KV32B2</b>
24 VDC	0,038	<b>P2E-KV32C0</b>	0,038	<b>P2E-KV32C1</b>	0,038	<b>P2E-KV32C2</b>
48 VDC	0,038	<b>P2E-KV32D0</b>	0,038	<b>P2E-KV32D1</b>	0,038	<b>P2E-KV32D2</b>
24 VAC 50Hz	0,038	<b>P2E-KV31C0</b>	0,038	<b>P2E-KV31C1</b>	0,038	<b>P2E-KV31C2</b>
48 VAC 50/60Hz	0,038	<b>P2E-KV34D0</b>	0,038	<b>P2E-KV34D1</b>	0,038	<b>P2E-KV34D2</b>
115 VAC 50Hz/	0,038	<b>P2E-KV31F0</b>	0,038	<b>P2E-KV31F1</b>	0,038	<b>P2E-KV31F2</b>
120 VAC 60Hz						
230 VAC 50Hz/	0,038	<b>P2E-KV31J0</b>	0,038	<b>P2E-KV31J1</b>	0,038	<b>P2E-KV31J2</b>
240 VAC 60Hz						



Voltage	Weight Kg	Order code Override extended, blue, non locking flush	Weight Kg	Order code Override extended, yellow, locking flush
24 VDC	0,038	<b>P2E-KV32C3</b>	0,038	<b>P2E-KV32C4</b>
24 VAC 50Hz	0,038	<b>P2E-KV31C3</b>	0,038	<b>P2E-KV31C4</b>

#### Solenoids 15 mm NC, mobile

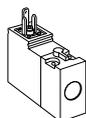
(Note! Mounting screws included in basic valve)

Voltage	Weight Kg	Order code Without manual override	Weight Kg	Order code Override, blue, non locking flush
12 VDC	0,038	<b>P2E-MV35B0</b>	0,038	<b>P2E-MV35B1</b>
24 VDC	0,038	<b>P2E-MV35C0</b>	0,038	<b>P2E-MV35C1</b>
37,5 VDC	0,038	<b>P2E-MV35W0</b>	0,038	<b>P2E-MV35W1</b>
48 VDC	0,038	<b>P2E-MV35D0</b>	0,038	<b>P2E-MV35D1</b>
72 VDC	0,038	<b>P2E-MV35T0</b>	0,038	<b>P2E-MV35T1</b>
78 VDC	0,038	<b>P2E-MV35Y0</b>	0,038	<b>P2E-MV35Y1</b>
96 VDC	0,038	<b>P2E-MV35V0</b>	0,038	<b>P2E-MV35V1</b>
110 VDC	0,038	<b>P2E-MV35E0</b>	0,038	<b>P2E-MV35E1</b>

#### Solenoids 15 mm NC, food industry version

(Note! Mounting screws included in basic valve)

Voltage	Weight Kg	Order code Without manual override	Weight Kg	Order code Override, blue, non locking flush	Weight Kg	Order code Override, yellow, locking flush
24 VDC	0,038	<b>P2E-QV32C0</b>	0,038	<b>P2E-QV32C1</b>	0,038	<b>P2E-QV32C2</b>
48 VDC	0,038	<b>P2E-QV32D0</b>	0,038	<b>P2E-QV32D1</b>	0,038	<b>P2E-QV32D2</b>
24 VAC 50Hz	0,038	<b>P2E-QV31C0</b>	0,038	<b>P2E-QV31C1</b>	0,038	<b>P2E-QV31C2</b>
48 VAC 50/60Hz	0,038	<b>P2E-QV34D0</b>	0,038	<b>P2E-QV34D1</b>	0,038	<b>P2E-QV34D2</b>
115 V 50Hz/	0,038	<b>P2E-QV31F0</b>	0,038	<b>P2E-QV31F1</b>	0,038	<b>P2E-QV31F2</b>
120 V 60Hz						
230 VAC 50Hz/	0,038	<b>P2E-QV31J0</b>	0,038	<b>P2E-QV31J1</b>	0,038	<b>P2E-QV31J2</b>
240 VAC 60Hz						



Voltage	Weight Kg	Order code Override extended, blue, non locking flush	Weight Kg	Order code Override extended, yellow, locking flush
24 VDC	0,038	<b>P2E-QV32C3</b>	0,038	<b>P2E-QV32C4</b>
24 VAC 50Hz	0,038	<b>P2E-QV31C3</b>	0,038	<b>P2E-QV31C4</b>
115 VAC 50 Hz	0,038	<b>P2E-QV31F3</b>	0,038	<b>P2E-QV31F4</b>
230 VAC 50 Hz	0,038	<b>P2E-QV31J3</b>	0,038	<b>P2E-QV31J4</b>

In accordance with the EU Machine Directive, EN 983, solenoid valves with manual override should have spring-return operating arms for safety.

## Solenoid Operators 22 mm

### Solenoid coils for 22mm solenoid operators

Voltage	Order code Form A	Weight (Kg)	Order code Form B	Weight (Kg)
12V 60Hz			<b>P2FCB440</b>	0.093
24V 50/60Hz			<b>P2FCB442</b>	0.093
12V DC			<b>P2FCB445</b>	0.093
12V DC Mobile	<b>P2FCA447</b>	0.17	<b>P2FCB447</b>	0.093
24v DC Mobile	<b>P2FCA448</b>	0.17	<b>P2FCB448</b>	0.093
24V DC			<b>P2FCB449</b>	0.093
24V DC Low power			<b>P2FCB249</b>	0.093
48V DC			<b>P2FCB451</b>	0.093
110V/50Hz, 120V/60Hz			<b>P2FCB453</b>	0.093
230V/50Hz, 230V/60Hz			<b>P2FCB457</b>	0.093

**Note:** Mobile solenoids are only suitable for Viking Xtreme valves with 'H' specification having 0,8/1,0 operator type P2FP13H4D

### Spare Solenoid Nuts

#### Valves requiring captured exhaust should be fitted with plastic knurled nut

Order code
<b>P2FNP</b>

#### Valves with vented exhaust are fitted with diffuser plastic nut

Order Code
<b>P2FND</b>

### Spare Solenoid Operators

#### Solenoid pilot operator 22mm NC, Normal duty (Max Operating pressure 10bar, Temp -10°C to +50°C)

Order code (with locking bi-stable m/o)	Weight Kg	Order code (with Non-locking monostable m/o)	Weight Kg
<b>P2FP13N4C</b>	0.05kg	<b>P2FP13N4D</b>	0.05kg

#### Low power pilot operator NC, Normal duty (Max Operating pressure 10bar, Temp -10°C to +50°C)

Order code (with locking bi-stable m/o)	Weight Kg	Order code (with Non-locking monostable m/o)	Weight Kg
<b>P2FP13N2C</b>	0.05kg	<b>P2FP13N2D</b>	0.05kg

#### Solenoid pilot operator 22mm NC, Xtreme duty (Max Operating pressure 16bar, Temp -40°C to +60°C)

Order code (with Non-locking monostable m/o)	Weight Kg
<b>P2FP13H4D</b>	0.05kg

**Note.**

Solenoid pilot operators are fitted to the Viking valve range.

Order the above part numbers for spares.

The operators are supplied with mounting screws and interface 'O' rings.

**Coils and connectors must be ordered separately.**



## Solenoid Operators CNOMO

### Solenoid coils with Din A or Industrial connection

Voltage	Order code Din A Standard 30 x 30	Weight (kg)	Order code Din A Mobile 30 x 30	Weight (kg)	Order code Industrial standard 22 x 30	Weight (kg)
Direct current						
12V DC	<b>P2FCA445</b>	0.105	<b>P2FCA447</b>	0.105	<b>P2FCB445</b>	0.093
24V DC	<b>P2FCA449</b>	0.105	<b>P2FCA448</b>	0.105	<b>P2FCB449</b>	0.093
48V DC	<b>P2FCA453*</b>	0.105	<b>P2FCA474</b>	0.105	<b>P2FCB451</b>	0.093
72V DC			<b>P2FCA470</b>	0.105		
96V DC			<b>P2FCA471</b>	0.105		
110V DC			<b>P2FCA472</b>	0.105		
Alternative current						
12V 50/60Hz	<b>P2FCA440</b>	0.105			<b>P2FCB440</b>	0.093
24V 50/60Hz	<b>P2FCA442</b>	0.105			<b>P2FCB442</b>	0.093
48V 50/60Hz	<b>P2FCA469#</b>	0.105				
110V 50Hz, 120V 60Hz	<b>P2FCA453</b>	0.105			<b>P2FCB453</b>	0.093
230V 50Hz, 230V 60Hz	<b>P2FCA457</b>	0.105			<b>P2FCB457</b>	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 30 x 30	Weight (kg)	Order code 22 x 30	Weight (kg)
Direct current				
24V DC	<b>P2FC6419</b>	0.065	<b>P2FC7419</b>	0.065

### Spare Solenoid Nuts

Valves requiring captured exhaust should be fitted with plastic knurled nut

Order code

**P2FNP**

Valves with vented exhaust are fitted with diffuser plastic nut

Order Code

**P2FND**

### Spare Solenoid Operators

#### Solenoid pilot operator CNOMO NC

Description	Order code No manual override	Weight (kg)	Order code Non-lock manual override	Weight (kg)	Order code Locking manual override	Weight (kg)
Standard duty	<b>P2FP23N4A</b>	0.065	<b>P2FP23N4B</b>	0.065	<b>P2FP23N4C</b>	0.065
Mobile metal	<b>P2FP43M4A</b>	0.1	<b>P2FP43M4B</b>	0.1	<b>P2FP43M4C</b>	0.1

#### Note.

The operators are supplied with mounting screws and interface 'O' rings.

**Coils and connectors must be ordered separately.**



PDE2600SPUK  
**Pneumatic Product Spares Catalogue**

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# Air Preparation & Airline Accessories



## Moduflex FRLs



### P3H - Filters / Filter Regulator

#### Service kits

Description	Order code
5 micron element kit	P3HKA00ESE

#### Coalescing Filters + Adsorbers

Description	Order code
0.01 micron coalescing element kit	P3HKA00ESC
Adsorber element kit	P3HKA00ESA

#### Service kits

Description	Order code
Connector O'ring spares kit (pk of 5)	P3HKA02CY
Metal Clip retainer kit (pk of 10)	P3HKA00CJ

### P3K - Filters / Filter Regulator

#### Service kits

Description	Order code
5 micron element kit	P3KKA00ESE
40 micron element kit	P3KKA00ESG

#### Coalescing Filters + Adsorbers

Description	Order code
0.01 micron coalescing element kit	P3KKA00ESC
Adsorber element kit	P3KKA00ESA

#### Service kits

Description	Order code
Connector O'ring spares kit (pk of 5)	P3KKA04CY
Metal Clip retainer kit (pk of 10)	P3KKA00CJ

### P3M - Filters / Filter Regulator

#### Service kits

Description	Order code
5 micron element kit	P3MKA00ESE

#### Coalescing Filters + Adsorbers

Description	Order code
0.01 micron coalescing element kit	P3MKA00ESC
Adsorber element kit	P3MKA00ESA

#### Service kits

Description	Order code
Connector O'ring spares kit (pk of 5)	P3MKA08CY
Metal Clip retainer kit (pk of 10)	P3MKA00CJ

## Modular Hi Flow FRLs



### Filters

#### Filter Element Kits

Description	Order code
5 Micron element	<b>P3NKA00ESE</b>
40 Micron element	<b>P3NKA00ESG</b>

#### Filter Spare Kits

Description	Order code
Manual drain kit	<b>P3E-KA00DBN</b>
Auto drain kit	<b>P3E-KA00DDN</b>

### Filter Regulators

#### Filter/Regulator Spare Kits

Description	Order code
5 Micron element	<b>P3NKA00ESE</b>
40 Micron element	<b>P3NKA00ESG</b>
Repair kit (self-relieving)	<b>P3NKA00RR</b>
Repair kit (non-relieving)	<b>P3NKA00RN</b>

### Regulators

#### Regulator Spare Kits

Description	Order code
Repair kit (self-relieving)	<b>P3NKA00RR</b>
Repair kit (non-relieving)	<b>P3NKA00RN</b>

### Coalescing Filters

#### Filter Element Kits

Description	Order code
Coalescing element	<b>P3NKA00ESC</b>
Adsorber element	<b>P3NKA00ESA</b>

## Global FRLs

### Mini Particulate Filter P31

#### Repair and Service Kits

Plastic bowl / Bowl guard manual drain	<b>P31KA00BGM</b>
Metal bowl / w/o sight gauge manual drain	<b>P31KA00BMM</b>
Plastic bowl / Bowl guard pulse drain	<b>P31KA00BGB</b>
Metal bowl / w/o sight gauge pulse drain	<b>P31KA00BMB</b>
5µ particle filter element	<b>P31KA00ESE</b>
C-Bracket (fits to body)	<b>P31KA00MW</b>

### Standard Particulate Filter P33

#### Repair and Service Kits

Plastic bowl / Bowl guard manual drain	<b>P33KA00BGM</b>
Metal bowl / Sight gauge manual drain	<b>P33KA00BSM</b>
Auto drain	<b>P32KA00DA</b>
5µ particle filter element	<b>P33KA00ESE</b>

### Compact Coalescing and Adsorber Filter P32

#### Repair and Service Kits

Plastic bowl / Bowl guard manual drain	<b>P32KA00BGM</b>
Metal bowl / Sight gauge manual drain	<b>P32KA00BSM</b>
Auto drain	<b>P32KA00DA</b>
1µ coalescing filter element	<b>P32KA00ES9</b>
0.01µ coalescing filter element	<b>P32KA00ESC</b>
Activated carbon adsorber filter element	<b>P32KA00ESA</b>
Differential pressure indicator (replacement)	<b>P32KA00RQ</b>

### Mini Regulator P31

#### Repair and Service Kits

Regulator repair kit - Relieving	<b>P31KA00RB</b>
Regulator repair kit - Non-relieving	<b>P31KA00RC</b>

### Compact Regulator P32

#### Repair and Service Kits

Regulator repair kit - Relieving	<b>P32KA00RB</b>
Regulator repair kit - Non-relieving	<b>P32KA00RC</b>

### Compact Particulate Filter P32

#### Repair and Service Kits

Plastic bowl / Bowl guard manual drain	<b>P32KA00BGM</b>
Metal bowl / Sight gauge manual drain	<b>P32KA00BSM</b>
Auto drain	<b>P32KA00DA</b>
5µ particle filter element	<b>P32KA00ESE</b>

### Mini Coalescing and Adsorber Filters P31

#### Repair and Service Kits

Plastic bowl / Bowl guard manual drain	<b>P31KA00BGM</b>
Metal bowl / w/o sight gauge manual drain	<b>P31KA00BMM</b>
Plastic bowl / Bowl guard pulse drain	<b>P31KA00BGB</b>
Metal bowl / w/o sight gauge pulse drain	<b>P31KA00BMB</b>
1µ coalescing filter element	<b>P31KA00ES9</b>
0.01µ coalescing filter element	<b>P31KA00ESC</b>
Activated carbon adsorber filter element	<b>P31KA00ESA</b>

### Standard Coalescing and Adsorber Filter P33

#### Repair and Service Kits

Plastic bowl / Bowl guard manual drain	<b>P33KA00BGM</b>
Metal bowl / Sight gauge manual drain	<b>P33KA00BSM</b>
Auto drain	<b>P32KA00DA</b>
1µ coalescing filter element	<b>P33KA00ES9</b>
0.01µ coalescing filter element	<b>P33KA00ESC</b>
Activated carbon adsorber filter element	<b>P33KA00ESA</b>
Differential pressure indicator (replacement)	<b>P32KA00RQ</b>

### Mini Common - P1 Regulator P31

#### Repair and Service Kits

Regulator repair kit - Relieving	<b>P31KA00RB</b>
Regulator repair kit - Non-relieving	<b>P31KA00RC</b>

### Compact Common P1 Regulator P32

#### Repair and Service Kits

Regulator repair kit - Relieving	<b>P32KA00RB</b>
Regulator repair kit - Non-relieving	<b>P32KA00RC</b>

## Global FRLs

### Standard Regulator P33

#### Repair and Service Kits

Regulator repair kit - Relieving	<b>P33KA00RB</b>
Regulator repair kit - Non-relieving	<b>P33KA00RC</b>

### Compact Filter / Regulator P32

#### Repair and Service Kits

Plastic bowl / Bowl guard manual drain	<b>P32KA00BGM</b>
Metal bowl / Sight gauge manual drain	<b>P32KA00BSM</b>
Auto drain	<b>P32KA00DA</b>
5µ particle filter element	<b>P32KA00ESE</b>
Regulator repair kit - Relieving	<b>P32KA00RB</b>
Regulator repair kit - Non-relieving	<b>P32KA00RC</b>

### Mini Lubricator - P31

#### Repair and Service Kits

Plastic bowl / Bowl guard no drain	<b>P31KA00BGN</b>
Metal bowl / w/o sight gauge no drain	<b>P31KA00BSN</b>
Drip control assembly	<b>P31KA00PG</b>
Lubricator Oil - VG15:ISO 3448 - 100ml	<b>P3XKA00PPA</b>
Lubricator Oil - VG32 - 1 litre	<b>P3YKA00PPBB</b>

### Standard Lubricator - P33

#### Repair and Service Kits

Plastic bowl / Bowl guard no drain	<b>P33KA00BGN</b>
Metal bowl / Sight gauge no drain	<b>P33KA00BSN</b>
Drip control assembly	<b>P32KA00PG</b>
Lubricator Oil - VG15:ISO 3448 - 100ml	<b>P3XKA00PPA</b>
Lubricator Oil - VG32 - 1 litre	<b>P3YKA00PPBB</b>

### Mini Filter / Regulator P31

#### Repair and Service Kits

Plastic bowl / Bowl guard manual drain	<b>P31KA00BGM</b>
Metal bowl / w/o sight gauge manual drain	<b>P31KA00BMM</b>
Plastic bowl / Bowl guard pulse drain	<b>P31KA00BGB</b>
Metal bowl / w/o sight gauge pulse drain	<b>P31KA00BMB</b>
5µ particle filter element	<b>P31KA00ESE</b>
Regulator repair kit - Relieving	<b>P31KA00RB</b>
Regulator repair kit - Non-relieving	<b>P31KA00RC</b>

### Standard Filter / Regulator P33

#### Repair and Service Kits

Plastic bowl / Bowl guard manual drain	<b>P33KA00BGM</b>
Metal bowl / Sight gauge manual drain	<b>P33KA00BSM</b>
Auto drain	<b>P33KA00DA</b>
5µ particle filter element	<b>P33KA00ESE</b>
Regulator repair kit - Relieving	<b>P33KA00RB</b>
Regulator repair kit - Non-relieving	<b>P33KA00RC</b>

### Compact Lubricator - P32

#### Repair and Service Kits

Plastic bowl / Bowl guard no drain	<b>P32KA00BGN</b>
Metal bowl / Sight gauge no drain	<b>P32KA00BSN</b>
Drip control assembly	<b>P32KA00PG</b>
Lubricator Oil - VG15:ISO 3448 - 100ml	<b>P3XKA00PPA</b>
Lubricator Oil - VG32 - 1 litre	<b>P3YKA00PPBB</b>

## Spare Solenoid Operators

### Solenoid pilot operator CNOMO NC

Description	Order code	Weight (Kg)
	Non-lock manual override	
Standard duty	<b>P2FP23N4B</b>	0.065

#### Note.

Solenoid pilot operators are fitted to the Global range.  
Order the above part numbers for spares.  
The operators are supplied with mounting screws and interface 'O' rings.  
**Coils and connectors must be ordered separately.**

## Spare Solenoid Nuts

### Valves requiring captured exhaust should be fitted with plastic knurled nut

#### Order code

**P2FNP**

### Valves with vented exhaust are fitted with diffuser plastic nut

#### Order code

**P2FND**

## P3L FRLs



### Filters

#### Repair and Service kits

Description	Order code
Plastic bowl / semi auto drain	<b>P3LKA00BPS</b>
5µ particle filter element	<b>P3LKA00ESE</b>
40µ particle filter element	<b>P3LKA00ESG</b>
Individual mounting bracket - P3LFA / P3LLA	<b>P3LKA00MW</b>

### Regulators

#### Repair and Service kits

Description	Order code
Panel mount nut - Aluminium	<b>P3LKA00MM</b>
Panel mount nut - Plastic	<b>P3LKA00MP</b>
Angle bracket (uses panel mount threads)	<b>P3LKA00MR</b>

### Lubricators

#### Repair and Service kits

Description	Order code
Plastic bowl - no drain	<b>P3LKA00BPN</b>
Lubricator Oil - VG32 - 1 litre	<b>P3YKA00PPBB</b>

### Coalescing / Adsorber Filters

#### Repair and Service kits

Description	Order code
Plastic bowl / manual push drain Coalescing	<b>P3LKA00BPP1</b>
Plastic bowl / manual push drain Adsorber	<b>P3LKA00BPP2</b>
0.01µ coalescing filter element	<b>P3LKA00ESC</b>
Activated carbon adsorber filter element	<b>P3LKA00ESA</b>
Individual mounting bracket - P3LFA / P3LLA	<b>P3LKA00MW</b>

### Filter Regulators

#### Repair and Service kits

Description	Order code
Plastic bowl / semi auto drain	<b>P3LKA00BPS</b>
5µ particle filter element	<b>P3LKA00ESE</b>
40µ particle filter element	<b>P3LKA00ESG</b>
Panel mount nut - Aluminium	<b>P3LKA00MM</b>
Panel mount nut - Plastic	<b>P3LKA00MP</b>
Angle bracket (uses panel mount threads)	<b>P3LKA00MR</b>

## P3X FRLs



### Filters

#### Service kits

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

### Adsorbers

#### Service kits

Description	Order code
Adsorber element kit	<b>P3XKA00ESA</b>
Bowl kit with manual drain	<b>P3XKA00BSC</b>

### Regulators

#### Service kits

Description	Order code
Diaphragm kit (relieving type)	<b>P3XKA00RR</b>
Diaphragm kit (non-relieving type)	<b>P3XKA00RN</b>

### Coalescing Filters

#### Service kits

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

### Filter Regulators

#### Service kits

Description	Order code
5 micron element kit	<b>P3XKA00ESE</b>
40 micron element kit	<b>P3XKA00ESG</b>
Bowl kit with combined manual/semi auto drain	<b>P3XKA00BSC</b>
Bowl kit with auto drain	<b>P3XKA00BSA</b>
Diaphragm kit (relieving type)	<b>P3XKA00RR</b>
Diaphragm kit (non-relieving type)	<b>P3XKA00RN</b>

### Lubricators

#### Service kits

Description	Order code
Bowl kit	<b>P3XKA00BSN</b>
Refill plug	<b>P3XKA00PL</b>
Oil VG15 - 100 ml	<b>P3XKA00PPA</b>

## P3Y FRLs



### Filters

#### Service kits

Description	Order code
5 micron element kit	<b>P3YKA00ESE</b>
40 micron element kit	<b>P3YKA00ESG</b>
Bowl kit with combined manual/semi auto drain	<b>P3YKA00BSC</b>
Bowl kit with auto drain	<b>P3YKA00BSA</b>

### Coalescing Filters

#### Service kits

Description	Order code
0.01 micron coalescing element kit	<b>P3YKA00ESC</b>
Bowl kit with combined manual/semi auto drain	<b>P3YKA00BSC</b>
Bowl kit with auto drain	<b>P3YKA00BSA</b>
Differential pressure indicator kit	<b>P3YKA00RQ</b>

### Regulators

#### Service kits

Description	Order code
Diaphragm kit (relieving type)	<b>P3YKA00RR</b>
Diaphragm kit (non-relieving type)	<b>P3YKA00RN</b>

### Lubricators

#### Service kits

Description	Order code
Bowl kit	<b>P3YKA00BSN</b>
Refill plug	<b>P3YKA00PL</b>
Lubricator Oil	<b>P3YKA00PPBB</b>

### Dust Filters

#### Service kits

Description	Order code
1 micron coalescing element kit	<b>P3YKA00ES9</b>
Bowl kit with combined manual/semi auto drain	<b>P3YKA00BSC</b>
Bowl kit with auto drain	<b>P3YKA00BSA</b>

### Adsorbers

#### Service kits

Description	Order code
Adsorber element kit	<b>P3YKA00ESA</b>
Bowl kit with manual / semi-auto drain	<b>P3YKA00BSC</b>

### Filter Regulators

#### Service kits

Description	Order code
5 micron element kit	<b>P3YKA00ESE</b>
40 micron element kit	<b>P3YKA00ESG</b>
Bowl kit with combined manual/semi auto drain	<b>P3YKA00BSC</b>
Bowl kit with auto drain	<b>P3YKA00BSA</b>
Diaphragm kit (relieving type)	<b>P3YKA00RR</b>
Diaphragm kit (non-relieving type)	<b>P3YKA00RN</b>

## P3Z FRLs



### Filters / Dust Filters

#### Service kits

Description	Order code
5 micron element kit	<b>P3ZKA00ESE</b>
40 micron element kit	<b>P3ZKA00ESG</b>
1 micron element kit	<b>P3ZKA00ES9</b>

### Coalescing / Adsorber Filters

#### Service kits

Description	Order code
0.01 micron coalescing element kit	<b>P3ZKA00ESC</b>
Adsorber element kit	<b>P3ZKA00ESA</b>
Differential pressure indicator kit	<b>P3ZKA00RQ</b>

### Regulator / Pilot Regulator

#### Service kits

Description	Order code
Diaphragm kit (relieving type)	<b>P3ZKA00RR</b>

### Lubricators

#### Service kits

Description	Order code
Drip control housing	<b>P3ZKA00PG</b>

## High Flow Precision Regulators



### R210 / R220 Regulator Kits & Accessories

#### Mounting Bracket Kits

Pipe Mounting .....	<b>SA200YW57</b>
Right Angle Mounting .....	<b>446-707-045</b>

#### Service Kits

0.13 to 2.7 bar .....	<b>RKR210A</b>
0.13 to 8.2 bar .....	<b>RKR210C</b>
0.13 to 8.2 bar (High Relieving).....	<b>RKR220C</b>

### R230 Regulator Kits & Accessories

Mounting Bracket Kit.....	<b>446-707-025</b>
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#### Service Kits – Relieving

0 to 0.13 bar .....	<b>RKR230E</b>
0 to 2 bar .....	<b>RKR230B</b>
0 to 4 bar .....	<b>RKR230C</b>
0 to 10 bar .....	<b>RKR230D</b>

## PXP Two Hand Safety Control Units



### Spare parts for two-hand control units

Description	Base component	Order code
1 guard for two-hand control	PXP-C111 PXP-D121	<b>PPR-L15</b>
1 set of 50 spring retaining clips		<b>PPR-W01</b>
1 guard for two hand control		<b>PPR-L15</b>
Control module		<b>PXP-A11</b>
Push button Black		<b>ZB4-BR2</b>
Push button Green		<b>ZB4-BR3</b>
Push button Red		<b>ZB4-BR4</b>

\* These units are indispensable for ensuring that both operator's hands are occupied for reasons of safety. Both push-buttons must be operated simultaneously to produce an output signal.

\*\* Conforming to french standard NFE 09-036 " Pneumatic synchronous two-hand controls".

PDE2600SPUK

## Pneumatic Product Spares Catalogue

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