

Skillair® PROGRESSIVE START VALVE



The 2/2 progressive valve comes in two versions, with solenoid or pneumatic actuation.

STD progressive start valve: a differential balanced valve automatically opens the air port fully when the downstream pressure is about 50% of the upstream pressure.

Progressive start valve with pneumatic or solenoid actuation: without a pilot, the upstream air flows downstream through the regulation needle.

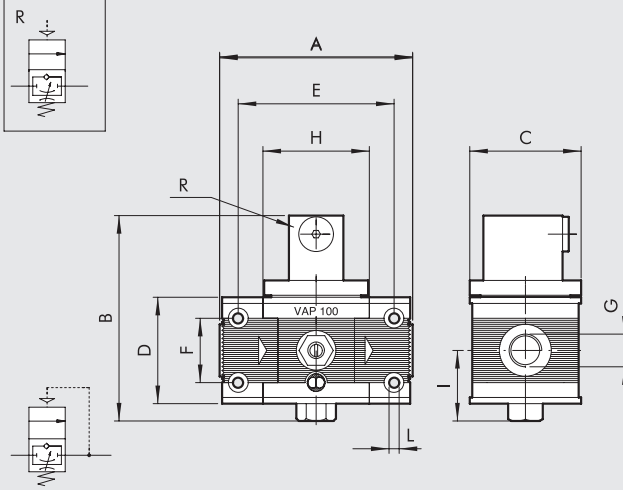
When an external or pneumatic solenoid signal is generated, the valve opens the main port to create full flow. It does not relieve the downstream circuit.



| TECHNICAL DATA | | VAP 100 | |
|--|--------|---------|---|
| | | 1/4" | 3/8" |
| Threaded port | | 1/4" | 3/8" |
| Min. inlet pressure ** | MPa | | 0.3 |
| | bar | | 3 |
| | psi | | 43.5 |
| Max. inlet pressure* | MPa | | 1.5 |
| | bar | | 15 |
| | psi | | 217 |
| Flow rate at 6 bar (0.6 MPa to 87 psi) ΔP 0.5 bar (0.05 MPa to 7 psi) | Nl/min | | 1300 |
| | scfm | | 46 |
| Flow rate at 6 bar (0.6 MPa to 87 psi) ΔP 1 bar (0.1 MPa to 14 psi) | Nl/min | | 2000 |
| | scfm | | 71 |
| Max temperature | °C | | 50 |
| | °F | | 122 |
| Weight | kg | | 0.5 ~ |
| Wall fixing screws | | | M4 x 50 |
| Mounting position | | | In any position |
| Type of control | | | Automatic - Pneumatic - Solenoid - Solenoid pilot-assisted |
| Fluid | | | Filtered, lubricated or unlubricated compressed air. Lubrication, if used, must be continuous |
| ** 0.01 MPa – 0.1 bar – 1.45 psi for pneumatic and pilot-assisted versions with controls at min. 0.3 MPa 3 bar 43.5 psi. | | | |
| * 1 MPa – 10 bar – 1.45 psi | | | |

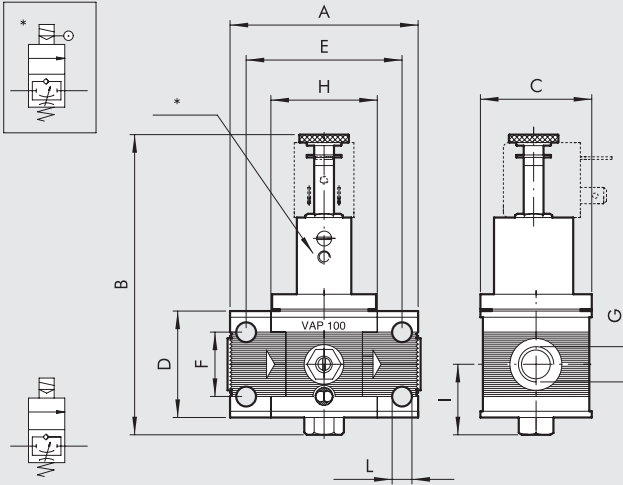
UNITS
Skillair® PROGRESSIVE START VALVE

DIMENSIONS OF VAP 100 STD/PNEUMATIC VALVE



| | VAP 100 | |
|-------------------------------|---------|--------------------|
| | 1/4" | 3/8" |
| Threaded port G | 1/4" | 3/8" |
| A | | 78 |
| B | | 83.5 |
| C | | 50 |
| D | | 43 |
| E | | 63 |
| F | | 26 |
| H | | 43 |
| I | | 29 |
| L | | Hole for M4 screws |
| R (pilot - pneumatic version) | | 1/8" |

DIMENSIONS OF VAP 100 SOLENOID/SOLENOID PILOT-ASSISTED VALVE



| | VAP 100 | |
|--------------------|---------|--------------------|
| | 1/4" | 3/8" |
| Threaded port G | 1/4" | 3/8" |
| A | | 78 |
| B | | 122.5 |
| C | | 50 |
| D | | 43 |
| E | | 63 |
| F | | 26 |
| H | | 43 |
| I | | 29 |
| L | | Hole for M4 screws |
| O | | 89 |
| * (pilot assisted) | | M5 |

ORDERING CODES

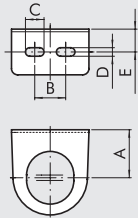
| Code | Description |
|----------|--|
| 3271000A | VAP 100 without end plates |
| 3271500A | VAP 100 pneumatic without end plates |
| 3271600A | VAP 100 solenoid without end plates |
| 3271700A | VAP 100 solenoid pilot-assisted without end plates |
| 3271000 | VAP 100 1/4 |
| 3271500 | VAP 100 1/4 pneumatic |
| 3271600 | VAP 100 1/4 solenoid |
| 3271700 | VAP 100 1/4 solenoid pilot-assisted |
| 3371000 | VAP 100 3/8 |
| 3371500 | VAP 100 3/8 pneumatic |
| 3371600 | VAP 100 3/8 solenoid |
| 3371700 | VAP 100 3/8 solenoid pilot-assisted |

NOTES

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Skillair® ACCESSORIES

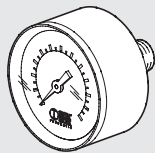
MOUNTING BRACKET FOR REG.



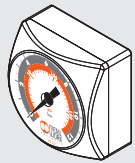
| Code | Description |
|---------|------------------|
| 9200701 | SF100- BIT-ND1/4 |
| 9400701 | SF200-ND-3/8 1/2 |
| 9400702 | SF300 |

| Code | A | B | C | D | E |
|---------|----|----|----|-----|------|
| 9200701 | 32 | 20 | 12 | 5.5 | 14.2 |
| 9400701 | 42 | 40 | 12 | 5.5 | 15 |
| 9400702 | 48 | 49 | 12 | 5.5 | 17 |

PRESSURE GAUGES

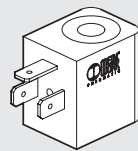


| Code | Description |
|---------|--------------|
| 9700101 | M 40 1/8 012 |
| 9700102 | M 40 1/8 04 |
| 9800101 | M 50 1/8 012 |
| 9800102 | M 50 1/8 04 |
| 9900101 | M 63 1/4 012 |



| | |
|---------|-----------------|
| 9700109 | M 40x40 1/8 04 |
| 9700110 | M 40x40 1/8 012 |

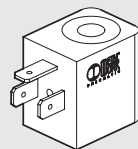
COIL 22 mm FOR APR AND V3V ELPN



| Code | Description |
|-------------|-----------------------------|
| W0215000151 | Coil 22 Ø 8 BA 2W-12VDC |
| W0215000101 | Coil 22 Ø 8 BA 2W-24VDC |
| W0215000111 | Coil 22 Ø 8 BA 3.5VA-24VAC |
| W0215000121 | Coil 22 Ø 8 BA 3.5VA-110VAC |
| W0215000131 | Coil 22 Ø 8 BA 3.5VA-220VAC |

Electrical connection DIN 43650 B-IND

COIL 22 mm FOR APR AND V3V ELPN

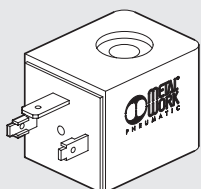


| Code | Description |
|-------------|--------------------------------|
| W0215000251 | Coil 22 Ø 8 BA 2W-12VDC UR |
| W0215000201 | Coil 22 Ø 8 BA 2W-24VDC UR |
| W0215000211 | Coil 22 Ø 8 BA 3.5VA-24VAC UR |
| W0215000221 | Coil 22 Ø 8 BA 3.5VA-110VAC UR |
| W0215000231 | Coil 22 Ø 8 BA 3.5VA-220VAC UR |

Electrical connection DIN 43650 B-IND



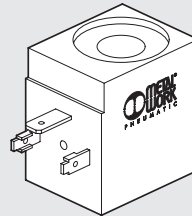
COIL 30 mm FOR APR AND V3V ELPN



| Code | Description |
|-------------|-----------------------------------|
| W0210010100 | Coil 30 Ø 8 2W-24VDC |
| W0210011100 | Coil 30 Ø 8 3.5VA-24VAC 50/60 HZ |
| W0210012100 | Coil 30 Ø 8 3.5VA-110VAC 50/60 HZ |
| W0210013100 | Coil 30 Ø 8 3.5VA-220VAC 50/60 HZ |

Electrical connection DIN 43650 - A

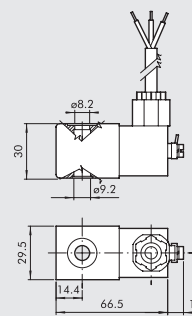
COIL 30 mm FOR CDV CDML LUBRICATOR



| Code | Description |
|-------------|---------------------------------|
| W0216001001 | Coil 30 Ø13 10W-24VDC |
| W0216001011 | Coil 30 Ø13 13VA-24VAC 50/60HZ |
| W0216001021 | Coil 30 Ø13 13VA-110VAC 50/60HZ |
| W0216001031 | Coil 30 Ø13 13VA-220VAC 50/60HZ |

Electrical connection DIN 43650 - A

KIT FOR COIL EEXM (FOR V3V-APR-LUB)



| Code | Description |
|------------|--|
| 0227606913 | Kit for coil 30 24 VDC EEXMT5 cable 3 m |
| 0227606915 | Kit for coil 30 24 VDC EEXMT5 cable 5 m |
| 0227608013 | Kit for coil 30 24 VAC EEXMT5 cable 3 m |
| 0227608015 | Kit for coil 30 24 VAC EEXMT5 cable 5 m |
| 0227608023 | Kit for coil 30 110 VAC EEXMT5 cable 3 m |
| 0227608025 | Kit for coil 30 110 VAC EEXMT5 cable 5 m |
| 0227608033 | Kit for coil 30 230 VAC EEXMT5 cable 3 m |
| 0227608035 | Kit for coil 30 230 VAC EEXMT5 cable 5 m |

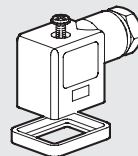
According to Atex 2014/34/EU rule,

Ex II 2G Ex mb IIC T4/T5 Gb

Ex II 2D Ex tb IIIC T130/T95 °C IP66 Db

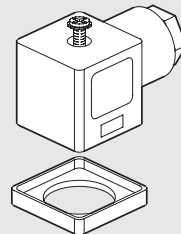
N.B.: Supplied complete with adapter for Ø8 mm sleeve

ELECTRIC CONNECTOR 22 mm FOR COILS DIN 43650 B-IND



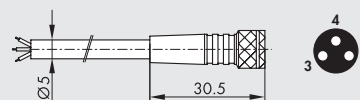
| Code | Description |
|-------------|---------------------------|
| W0970510011 | Connector standard |
| W0970510012 | Connector 22 LED 24V |
| W0970510013 | Connector 22 LED 110V |
| W0970510014 | Connector 22 LED 220V |
| W0970510015 | Connector 22 LED VDR 24V |
| W0970510016 | Connector 22 LED VDR 110V |
| W0970510017 | Connector 22 LED VDR 220V |
| W0970510070 | Connector 22 ATEX II 2 GD |

ELECTRIC CONNECTOR 30 mm FOR COILS DIN 43650-A



| Code | Description |
|-------------|---------------------------|
| W0970520033 | Connector 30 STD |
| W0970520034 | Connector 30 LED 24V |
| W0970520035 | Connector 30 LED 110V |
| W0970520036 | Connector 30 LED 220V |
| W0970520037 | Connector 30 LED VDR 24V |
| W0970520038 | Connector 30 LED VDR 110V |
| W0970520039 | Connector 30 LED VDR 220V |

M8 STRAIGHT CONNECTOR WITH CABLE FOR PRESSURE SWITCHES

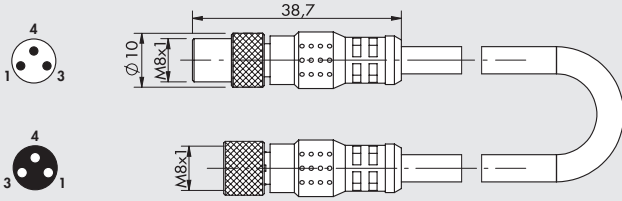


| Pin | Cable color |
|-----|-------------|
| 1 | Brown |
| 3 | Blue |
| 4 | Black |

| Code | Description |
|------------|--|
| 02400A0100 | M8 female 3 PIN HIGH FLEX CL6 connector with cable L = 1 m |
| 02400A0250 | M8 female 3 PIN HIGH FLEX CL6 connector with cable L = 2.5 m |
| 02400A0500 | M8 female 3 PIN HIGH FLEX CL6 connector with cable L = 5 m |
| 02400A1000 | M8 female 3 PIN HIGH FLEX CL6 connector with cable L = 10 m |

Very flexible cables, class 6 according to IEC 60228

M8 ADAPTER CABLE FOR CONNECTING THE PRESSURE SWITCH TO THE EB 80 E CM DIGITAL INPUTS MODULE



| Code | Description |
|------------|--|
| 0240010501 | M8-M, M8-F 3-pole adapter with cable L = 0.3 m |

Note: Can be used to connect the pressure switch to the module of digital INPUT 501 of the EB 80 valves, to the additional M8 INPUT module of the CM valves and to the Profibus-DP IP67 M8 input. Contact type NO (Normally open)

| M8F | M8M | Function |
|-------|------------|----------------|
| pin 1 | pin 1 | Power supply + |
| pin 3 | pin 2 | Signal NO |
| pin 4 | disconnect | |

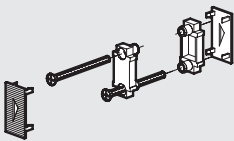
KIT COIL SIDE 22 IP65 (FOR V3V-APR-LUB)



| Code | Description |
|------------|-------------------------|
| 0222100100 | Kit for coils 22 - IP65 |

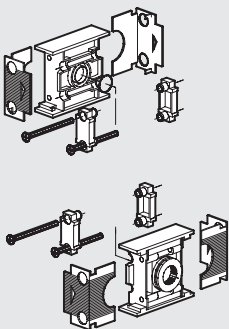
Improved IP65 protection, even after prolonged exposure to atmospheric agents. Applicable to valves with a technopolymer control.

CONNECTOR KIT FOR SKILLAIR CODE A



| Code | Description |
|---------|-------------------|
| 9230301 | Connector kit 100 |
| 9330301 | Connector kit 200 |
| 9430301 | Connector kit 300 |
| 9630301 | Connector kit 400 |

INPUT/OUTPUT END PLATE KIT



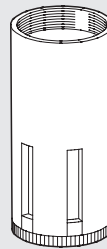
| Code | Description |
|---------|--------------------------------|
| 9230401 | IN/OUT end plate kit 100 1/4 |
| 9330501 | IN/OUT end plate kit 100 3/8 |
| 9330601 | IN/OUT end plate kit 200 1/4 |
| 9330701 | IN/OUT end plate kit 200 3/8 |
| 9330801 | IN/OUT end plate kit 200 1/2 |
| 9430701 | IN/OUT end plate kit 300 1/2 |
| 9530901 | IN/OUT end plate kit 300 3/4 |
| 9531001 | IN/OUT end plate kit 300 1 |
| 9631001 | IN/OUT end plate kit 400 1 |
| 9631101 | IN/OUT end plate kit 400 1 1/4 |
| 9631201 | IN/OUT end plate kit 400 1 1/2 |
| 9631301 | IN/OUT end plate kit 400 2 |

FILTER BOWL



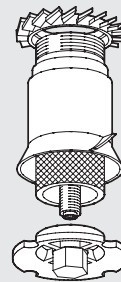
| Code | Description |
|---------|--------------------|
| 9253301 | Spares TF 100 RMSA |
| 9255301 | Spares TF 100 SAC |
| 9353301 | Spares TF 200 RMSA |
| 9355301 | Spares TF 200 SAC |
| 9453401 | Spares TF 300 RA |
| 9453301 | Spares TF 300 RMSA |
| 9653401 | Spares TF 400 RA |
| 9653301 | Spares TF 400 RMSA |

LUBRICATOR BOWL



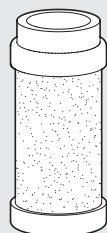
| Code | Description |
|---------|------------------|
| 9253501 | Spares TL 100 |
| 9202503 | Spares TL 100 CA |
| 9202502 | Spares TL 100 CD |
| 9202501 | Spares TL 100 ML |
| 9353501 | Spares TL 200 |
| 9302501 | Spares TL 200 CA |
| 9302503 | Spares TL 200 CD |
| 9302502 | Spares TL 200 ML |
| 9453501 | Spares TL 300 |
| 9202401 | Spares TL 300 CA |
| 9202403 | Spares TL 300 CD |
| 9202402 | Spares TL 300 ML |
| 9653501 | Spares TL 400 |
| 9653502 | Spares TL 400 CA |
| 9653504 | Spares TL 400 CD |
| 9653503 | Spares TL 400 ML |

FILTERING ELEMENTS



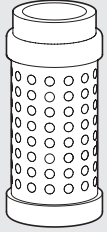
| Code | Description |
|---------|------------------|
| 9251705 | Spares FP 100 5 |
| 9251706 | Spares FP 100 20 |
| 9251707 | Spares FP 100 50 |
| 9351705 | Spares FP 200 5 |
| 9351706 | Spares FP 200 20 |
| 9351707 | Spares FP 200 50 |
| 9451705 | Spares FP 300 5 |
| 9451706 | Spares FP 300 20 |
| 9451707 | Spares FP 300 50 |
| 9651705 | Spares FP 400 5 |
| 9651706 | Spares FP 400 20 |
| 9651707 | Spares FP 400 50 |

FILTERING/PURIFICATION ELEMENTS



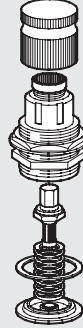
| Code | Description |
|---------|--------------------|
| 9251711 | Spares FP DEP. 100 |
| 9351711 | Spares FP DEP. 200 |
| 9451711 | Spares FP DEP. 300 |
| 9651711 | Spares FP DEP. 400 |

CARTRIDGE AC



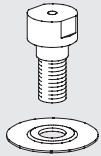
| Code | Description |
|---------|-------------------------|
| 9251713 | Spares cartridge 100 AC |
| 9351713 | Spares cartridge 200 AC |
| 9451713 | Spares cartridge 300 AC |
| 9651712 | Spares cartridge 400 AC |

UPPER COVER FOR REGULATOR AND FR



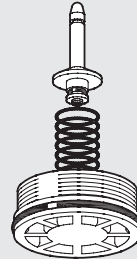
| Code | Description |
|---------|-------------------|
| 9250800 | Spares CS 100 02 |
| 9250810 | Spares CS 100 04 |
| 9250811 | Spares CS 100 08 |
| 9250812 | Spares CS 100 012 |
| 9350800 | Spares CS 200 02 |
| 9350810 | Spares CS 200 04 |
| 9350811 | Spares CS 200 08 |
| 9350812 | Spares CS 200 012 |
| 9450805 | Spares CS 300 04 |
| 9450806 | Spares CS 300 08 |
| 9450807 | Spares CS 300 012 |
| 9450808 | Spares CS 300 02 |

VENTURI LUBRICATOR DIAPHRAGM



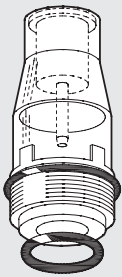
| Code | Description |
|---------|--------------------------|
| 9252001 | Spares MB 100 ND 1/4 |
| 9352001 | Spares MB 200 ND 3/8-1/2 |
| 9452001 | Spares MB 300 |
| 9652601 | Spares MB 400 |

COMPLETE POPPET FOR REGULATORS



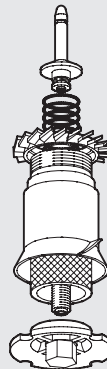
| Code | Description |
|---------|----------------|
| 9250704 | Spares OTR 100 |
| 9350704 | Spares OTR 200 |
| 9450704 | Spares OTR 300 |
| 9650704 | Spares OTR 400 |

TRANSPARENT LUBRICATOR COVER



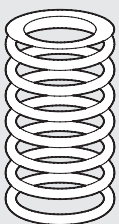
| Code | Description |
|---------|--------------------------------|
| 9251302 | Spares CVL 100-200-300-400 BIT |

COMPLETE POPPET FOR FR



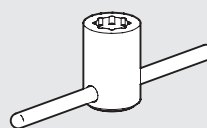
| Code | Description |
|---------|--------------------|
| 9250902 | Spares OTFR 100 5 |
| 9250903 | Spares OTFR 100 20 |
| 9250904 | Spares OTFR 100 50 |
| 9350902 | Spares OTFR 200 5 |
| 9350903 | Spares OTFR 200 20 |
| 9350904 | Spares OTFR 200 50 |
| 9450902 | Spares OTFR 300 5 |
| 9450903 | Spares OTFR 300 20 |
| 9450904 | Spares OTFR 300 50 |

SPRINGS FOR REDUCERS AND FRs



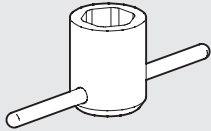
| Code | Description |
|---------|-------------------|
| 9250605 | Spares MO 100 02 |
| 9250606 | Spares MO 100 04 |
| 9250607 | Spares MO 100 08 |
| 9250608 | Spares MO 100 012 |
| 9350605 | Spares MO 200 02 |
| 9350606 | Spares MO 200 04 |
| 9350607 | Spares MO 200 08 |
| 9350608 | Spares MO 200 012 |
| 9450605 | Spares MO 300 04 |
| 9450606 | Spares MO 300 08 |
| 9450607 | Spares MO 300 012 |
| 9450608 | Spares MO 300 02 |

UPPER COVER DISASSEMBLY SPANNER



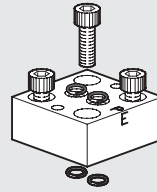
| Code | Description |
|---------|----------------------|
| 9220701 | Spares cover spanner |

REG AND FR VISUAL DOME DISASSEMBLY SPANNER



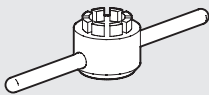
| Code | Description |
|---------|------------------------------|
| 9220401 | Spares dome dis. spanner 100 |
| 9323401 | Spares dome dis. spanner 200 |
| 9420401 | Spares dome dis. spanner 300 |

PROVISION FOR SOLENOID CONTROL TO CNOMO FOR APR-300



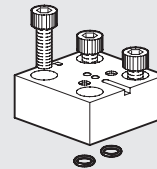
| Code | Description |
|---------|---------------------|
| 9454001 | Spares PCE to Cnomo |

POPPET DISASSEMBLY SPANNER (FOR REG.)



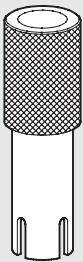
| Code | Description |
|---------|------------------------------|
| 9220501 | Spares R cap disass. WR. 100 |
| 9323501 | Spares R cap disass. WR. 200 |
| 9420501 | Spares R cap disass. WR. 300 |

PROVISION FOR MICRO SOLENOID CONTROL FOR APR-300



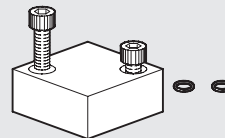
| Code | Description |
|---------|------------------|
| 9453601 | Spares PCE micro |

POPPET DISASSEMBLY SPANNER (FOR FR)



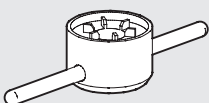
| Code | Description |
|---------|-------------------------------|
| 9220801 | Spares FR cap disass. WR. 100 |
| 9320801 | Spares FR cap disass. WR. 200 |
| 9420801 | Spares FR cap disass. WR. 300 |

PROVISION FOR PNEUMATIC CONTROL FOR APR-300



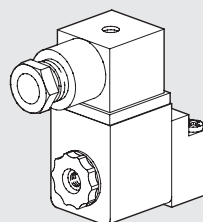
| Code | Description |
|---------|----------------------|
| 9453701 | Spares PCP pneumatic |

CAP DISASSEMBLY SPANNER



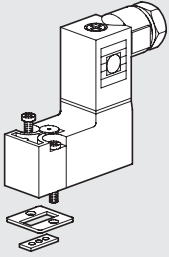
| Code | Description |
|---------|------------------------|
| 9220601 | Spares cap disass. 100 |
| 9323601 | Spares cap disass. 200 |
| 9420601 | Spares cap disass. 300 |

CNOMO SOLENOID CONTROL FOR APR and V3V 300-400



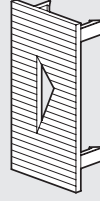
| Code | Description |
|---------|-----------------------|
| 9453901 | Spares CEC Cnomo 24CC |
| 9453902 | Spares CEC Cnomo 24V |
| 9453903 | Spares CEC Cnomo 110V |
| 9453904 | Spares CEC Cnomo 220V |

**MICRO SOLENOID CONTROL FOR APR-300 and V3V 300
(NO MORE IN THE CATALOGUE)**



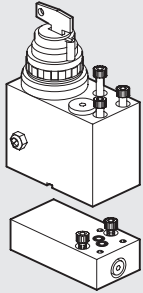
| Code | Description |
|---------|-----------------------|
| 9453801 | Spares CEM micro 24CC |
| 9453802 | Spares CEM micro 24V |
| 9453803 | Spares CEM micro 110V |
| 9453804 | Spares CEM micro 220V |

INTERMEDIATE COVER PLATE



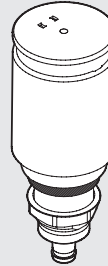
| Code | Description |
|---------|-------------------------------------|
| 9152107 | Spares intermediate cover plate 100 |
| 9152114 | Spares intermediate cover plate 200 |
| 9152108 | Spares intermediate cover plate 300 |
| 9152117 | Spares intermediate cover plate 400 |

KEY-OPERATED V3V 400



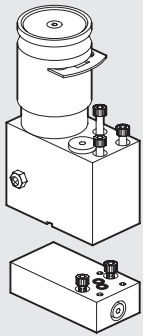
| Code | Description |
|---------|---------------------|
| 9455401 | Spares kit C.C. 400 |

AUTOMATIC DRAIN (RA)



| Code | Description |
|---------|---------------------------|
| 9000802 | Spares RA automatic drain |

MANUAL LOCKABLE V3V 400



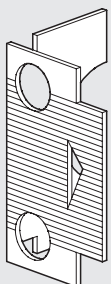
| Code | Description |
|---------|-------------------------|
| 9455601 | Spares kit lockable 400 |

AUTOMATIC DRAIN (SAC)



| Code | Description |
|---------|----------------------------|
| 9000803 | Spares SAC automatic drain |

INPUT/OUTPUT COVER PLATE



| Code | Description |
|---------|-------------------------------|
| 9152103 | Spares OUTPUT cover plate 100 |
| 9152105 | Spares INPUT cover plate 100 |
| 9152115 | Spares OUTPUT cover plate 200 |
| 9152116 | Spares INPUT cover plate 200 |
| 9152104 | Spares OUTPUT cover plate 300 |
| 9152106 | Spares INPUT cover plate 300 |
| 9152118 | Spares OUTPUT cover plate 400 |
| 9152119 | Spares INPUT cover plate 400 |

NOTES