

# MANIFOLD MOUNT ROUND VALVE KITS

# **MECAIR**

# 3/4" VALVE FOR 5" TANK & 1" VALVE FOR 6" TANK

#### PRODUCT LEAFLET

Diecast aluminium (anodised)
Diecast aluminium (anodised)
Aluminium (anodised)
Stainless steel
Refer to options in part number code
Stainless steel
Stainless steel
Alloy steel

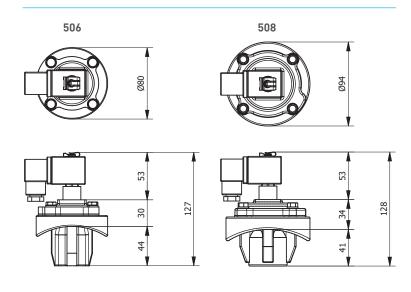


MODEL	PORT SIZE	TANK SIZE	NO. DIAPHRAGMS	PRESSURE MIN	PRESSURE MAX	KV	CV
506	3/4"	5"	1	0.5 BAR	7.5 BAR	15.1	17.5
508	1"	6"	1	0.5 BAR	7.5 BAR	26.3	30.6

#### **BLOWTUBE SIZING**

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#### **VALVE DIMENSIONS**



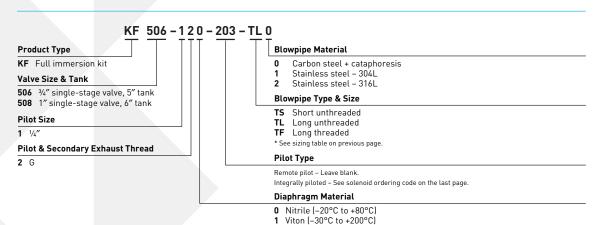
Ø TANK	ØF	Υ	SHORT UNTHREADED	L	LONG UNTHREADED	L	LONG THREADED	Ø G GAS	Н	1
DN5"	26.7	93	TS506	60	TL506	80	TF506	3/4"	70	80
DN6"	33.4	106	TS508	60	TL508	100	TF508	1"	90	100

# **MECAIR**

# 3/4" VALVE FOR 5" TANK & 1" VALVE FOR 6" TANK

PRODUCT LEAFLET

#### PRODUCT ORDERING CODE

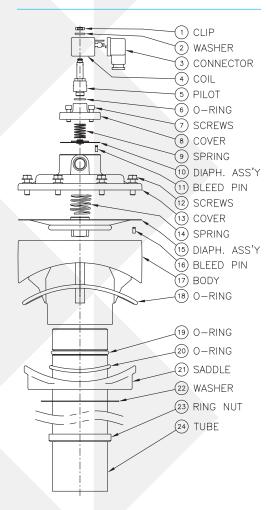


NOTE: Other configurations may be available upon request.

# PRODUCT KIT PART NUMBERS

NOTE: If integrally piloted, see the solenoid section on the last page for solenoid temperature ratings.

#### **FULL IMMERSION KIT EXPLODED VIEW**



NAME & DESCRIPTION	COMPONENTS	PART NUMBER
FI Kit – Pilot, Blowpipe & Single Stage Valve	1, 2, 3, 4, 5, 6, 12, 13, 14 <sup>+</sup> , 15, 16, 17, 18, 19, 20, 21, 22, 23, 24	Refer to product ordering code.
FI Kit – Blowpipe & Single Stage Valve	12, 13, 14 <sup>+</sup> , 15, 16, 17, 18, 19, 20, 21, 22, 23, 24	
Diaphragm Kit – 506	14 <sup>+</sup> , 15, 16	Nitrile: KIT DB16/G Viton: KIT DB16V/S
Diaphragm Kit – 508	14+, 15, 16	Nitrile: KIT DB18/G Viton: KIT DB18V/S
Full Immersion Gasket Kit (5PCS)	18, 19, 20, 22	5" Tank - KOR506- <b>X</b> * 6" Tank - KOR508- <b>X</b> *
Remote Top Section Kit – Single Stage Valve	12, 13, 14, 15, 16	<sup>3</sup> / <sub>4</sub> " Valve – KV506- <b>YZX</b> 1" Valve – KV508- <b>YZX</b>
Blowpipe Kit	19, 20, 21, 22, 23, 24	5" Tank - KB506- <b>X*-WWU</b> 6" Tank - KB508- <b>X*-WWU</b>
PV Pilot Kit (KIT PV)	1, 2, 3, 4, 5, 6	
Coil Connector (KIT PLG)	3	See Solenoid kit part numbers on
SB Coil Kit (KIT SB)	1, 2, 4	the last page.
Pilot Valve Kit (KIT CP)	1, 2, 5, 6	

#### Part Number Key (Refer product code above)

- X See "Diaphragm Material" (\* Use diaphragm material codes to select gasket material)
- Y See "Pilot Size"
- Z See "Pilot & Secondary Exhaust Thread"
- W See "Blowpipe Type & Size"
- U See "Blowpipe Material"
- + Spring only comes with the Viton version

# 11/2" VALVES FOR 6" & 8" TANKS

#### PRODUCT LEAFLET

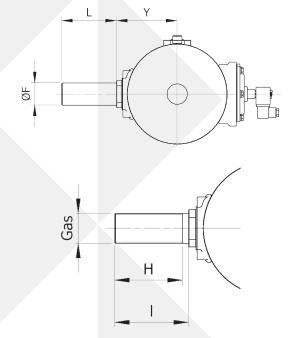
VALVE OBEOLEIOATIONS	
VALVE SPECIFICATIONS	
TOP COVER	Diecast aluminium (E-coat black)
BODY	Diecast aluminium (E-coat black)
PILOT BASE	Aluminium (anodised)
PILOT	Stainless steel
DIAPHRAGM	Refer to options in part number code
BOLTS	Stainless steel
DIAPHRAGM BACKING DISK	Stainless steel
DIAPHRAGM SEAT	Nylon (standard)
DIAPHRAGM SPRING	Stainless steel

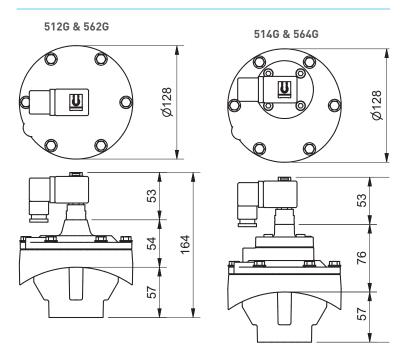


MODEL	PORT SIZE	TANK SIZE	No. DIAPHRAGMS	PRESSURE MIN	PRESSURE MAX	KV	CV
512G	11/2"	8"	1	1 BAR	8.6 BAR	51	59
514G	11/2"	8"	2	1 BAR	8.6 BAR	52	60
562G	11/2"	6"	1	1 BAR	8.6 BAR	51	59
564G	11/2"	6 <b>"</b>	2	1 BAR	8.6 BAR	52	60

#### **BLOWTUBE SIZING**

#### **VALVE DIMENSIONS**





ØТ	ANK	ØF	Υ	SHORT UNTHREADED	L	LONG UNTHREADED	L	LONG THREADED	Ø G GAS	Н	1
DN	6 <b>"</b>	48.3	106	TS564	60	TL564	120	TF564	11/2"	110	120
DN8	8″	48.3	131	TS514	60	TL514	120	TF514	11/2"	110	120

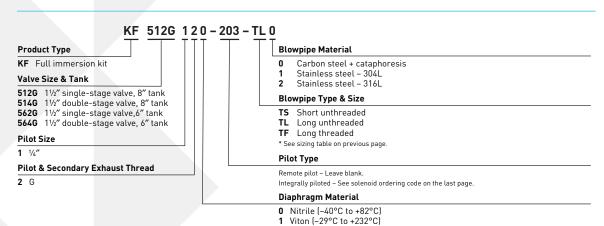
#### **APPROVALS**

514G120/564G120 - CRN: 0C18438.56

# 11/2" VALVES FOR 6" & 8" TANKS

PRODUCT LEAFLET

#### PRODUCT ORDERING CODE



NOTE: Other configurations may be available upon request.

**FULL IMMERSION KIT EXPLODED VIEW** 

#### **PRODUCT KIT PART NUMBERS**

4 Low temp, nitrile membrane, polyethylene seat (-60°C to +82°C)

NOTE: If integrally piloted, see the solenoid section on the last page for solenoid temperature ratings.

### (2) WASHER (3) CONNECTOR 4) COIL (5) PILOT 6 O-RING 7 SCREWS (8) COVER (9) SPRING 0 (10) DIAPH. ASS'Y (11) BLEED PIN (12) SCREWS (13) COVER (14) SPRING (15) DIAPH. ASS'Y (16) BLEED PIN (17) BODY (18) O-RING (19) O-RING (20) O-RING (21) SADDLE (22) WASHER (23) RING NUT 24) TUBE

NAME & DESCRIPTION	COMPONENTS	PART NUMBER	
FI Kit – Pilot, Blowpipe & Single Stage Valve	1, 2, 3, 4 , 5, 6, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24		
FI Kit – Pilot, Blowpipe & Double Stage Valve	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24	Refer to product ordering	
FI Kit – Blowpipe & Single Stage Valve	12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24	code.	
FI Kit – Blowpipe & Double Stage Valve	7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24		
Diaphragm Kit – Single Stage Valve	14, 15, 16	KD512G <b>X</b>	
Diaphragm Kit – Double Stage Valve	9, 10, 11, 14, 15, 16	KD514G <b>X</b>	
Full Immersion Gasket Kit (5PCS)	18, 19, 20, 22	6" Tank - KOR564G <b>X</b> * 8" Tank - KOR514G <b>X</b> *	
Remote Top Section Kit – Single Stage Valve	12, 13, 14, 15, 16	KV512G <b>YZX</b>	
Remote Top Section Kit – Double Stage Valve	7, 8, 9, 10, 11, 12, 13, 14, 15, 16	KV514G <b>YZX</b>	
Blowpipe Kit	19, 20, 21, 22, 23, 24	6" Tank - KB564G <b>X*-WWU</b> 8" Tank - KB514G <b>X*-WWU</b>	
PV Pilot Kit (KIT PV)	1, 2, 3, 4, 5, 6		
Coil Connector (KIT PLG)	3	See Solenoid kit part	
SB Coil Kit (KIT SB)	1, 2, 4	numbers on the last page.	
Pilot Valve Kit (KIT CP)	1, 2, 5, 6		

#### Part Number Key (Refer product code above)

- X See "Diaphragm Material" (\* Use diaphragm material codes to select gasket material)
- Y See "Pilot Size"
- Z See "Pilot & Secondary Exhaust Thread"
- W See "Blowpipe Type & Size"
- U See "Blowpipe Material"

# 2" VALVES FOR 8" & 10" TANKS

#### PRODUCT LEAFLET

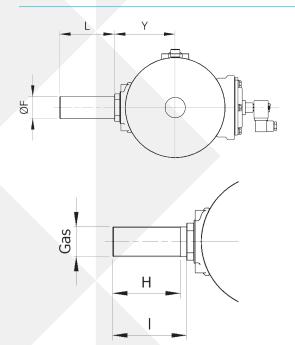
VALVE SPECIFICATIONS	
TOP COVER	Diecast aluminium (E-coat black)
BODY	Diecast aluminium (E-coat black)
PILOT BASE	Aluminium (anodised)
PILOT	Stainless steel
DIAPHRAGM	Refer to options in part number code
BOLTS	Stainless steel
DIAPHRAGM BACKING DISK	Stainless steel
DIAPHRAGM SEAT	Nylon (standard)
DIAPHRAGM SPRING	Stainless steel

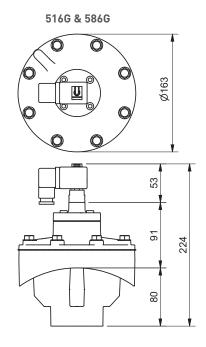


MODEL	PORT SIZE	TANK SIZE	No. DIAPHRAGMS	PRESSURE MIN	PRESSURE MAX	KV	CV
516G	2"	10"	2	1 BAR	8.6 BAR	76	88
586G	2"	8"	2	1 BAR	8.6 BAR	76	88

#### **BLOWTUBE SIZING**







Ø TANK	ØF	Υ	SHORT UNTHREADED	L	LONG UNTHREADED	L	LONG THREADED	Ø G GAS	Н	1
DN8"	60.3	133	TS586	60	TL586	120	TF586	2"	110	120
DN10"	60.3	158	TS516	60	TL516	140	TF516	2"	130	140

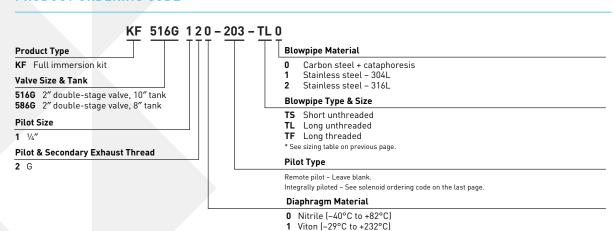
#### **APPROVALS**

516G120/586G120 - CRN: 0C229335.5

# 2" VALVES FOR 8" & 10" TANKS

PRODUCT LEAFLET

#### PRODUCT ORDERING CODE



NOTE: Other configurations may be available upon request.

**FULL IMMERSION KIT EXPLODED VIEW** 

#### PRODUCT KIT PART NUMBERS

4 Low temp, nitrile membrane, polyethylene seat (-60°C to +82°C)

NOTE: If integrally piloted, see the solenoid section on the last page for solenoid temperature ratings.

#### 1) CLIP (2) WASHER (3) CONNECTOR (4) COIL (5) PILOT 6 O-RING (7) SCREWS (8) COVER (9) SPRING (10) DIAPH. ASS'Y (11) BLEED PIN (12) SCREWS (13) COVER ш (14) SPRING (15) DIAPH. ASS'Y (16) BLEED PIN (17) BODY (18) O-RING (19) O-RING (20) O-RING (21) SADDLE (22) WASHER

(23) RING NUT

(24) TUBE

NAME & DESCRIPTION	COMPONENTS	PART NUMBER
FI Kit – Pilot, Blowpipe & Double Stage Valve	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24	Refer to product ordering code.
FI Kit – Blowpipe & Double Stage Valve	7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24	Refer to product ordering code.
Diaphragm Kit – Double Stage Valve	9, 10, 11, 14, 15, 16	KD516G <b>X</b>
Full Immersion Gasket Kit (5PCS)	18, 19, 20, 22	8" Tank - KOR586G <b>X</b> * 10" Tank - KOR516G <b>X</b> *
Remote Top Section Kit – Double Stage Valve	7, 8, 9, 10, 11, 12, 13, 14, 15, 16	KV516G <b>YZX</b>
Blowpipe Kit	19, 20, 21, 22, 23, 24	8" Tank - KB586G <b>X</b> *- <b>WWU</b> 10" Tank - KB516G <b>X</b> *- <b>WWU</b>
PV Pilot Kit (KIT PV)	1, 2, 3, 4, 5, 6	
Coil Connector (KIT PLG)	3	See Solenoid kit part numbers
SB Coil Kit (KIT SB)	1, 2, 4	on the last page.
Pilot Valve Kit (KIT CP)	1, 2, 5, 6	

#### Part Number Key (Refer product code above)

- X See "Diaphragm Material" (\* Use diaphragm material codes to select gasket material)
- Y See "Pilot Size"
- Z See "Pilot & Secondary Exhaust Thread"
- W See "Blowpipe Type & Size"
- U See "Blowpipe Material"

# 21/2" & 3" VALVES FOR 12" TANKS

#### PRODUCT LEAFLET

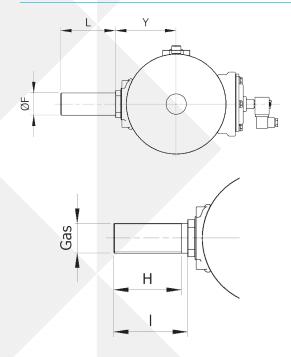
VALVE SPECIFICATIONS	
TOP COVER	Diecast aluminium
BODY	Diecast aluminium
PILOT BASE	Aluminium
PILOT	Stainless steel
DIAPHRAGM	Refer to options in part number code
BOLTS	Stainless steel
DIAPHRAGM BACKING DISK	Stainless steel
DIAPHRAGM SEAT	Moulded nitrile (standard)
DIAPHRAGM SPRING	Stainless steel

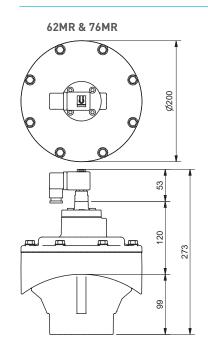


MODEL	PORT SIZE	TANK SIZE	No. DIAPHRAGMS	PRESSURE MIN	PRESSURE MAX	KV	CV
62MR	2.5"	12"	2	0.3 BAR	8.6 BAR	105.7	175.2
76MR	3"	12"	2	0.3 BAR	8.6 BAR	200	233

#### **BLOWTUBE SIZING**

#### **VALVE DIMENSIONS**





Ø TANK	ØF	Υ	SHORT UNTHREADED	L	LONG UNTHREADED	L	LONG THREADED	Ø G GAS	Н	1
DN12"	76.1	187	TS520	80	TL520	140	TF520	2.5"	130	140
DN12"	88.9	187	TS524	80	TL524	140	TF524	3"	130	140

#### **APPROVALS**

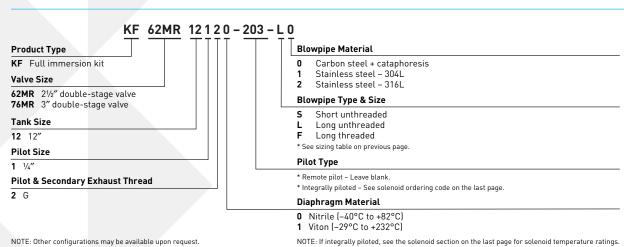
76MR - CRN: 0C14096.25

<sup>\*</sup> Operating limits: 632 kPa, 80°C

# 21/2" & 3" VALVES FOR 12" TANKS

#### PRODUCT LEAFLET

#### PRODUCT ORDERING CODE



NOTE: Other configurations may be available upon request.

**FULL IMMERSION KIT EXPLODED VIEW** 

#### **PRODUCT KIT PART NUMBERS**

# (2) WASHER (3) CONNECTOR (4) COIL (5) PILOT 6 O-RING 7 SCREWS (8) COVER (9) SPRING (10) DIAPH. ASS'Y (11) BLEED PIN (12) SCREWS (13) COVER (14) SPRING (15) DIAPH. ASS'Y (16) BLEED PIN (17) BODY (18) O-RING (19) O-RING (20) O-RING (21) SADDLE (22) WASHER (23) RING NUT (24) TUBE

NAME & DESCRIPTION	COMPONENTS	PART NUMBER
FI Kit – Pilot, Blowpipe & Double Stage Valve	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24	Defente product and pring and
FI Kit – Blowpipe & Double Stage Valve	7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24	Refer to product ordering code.
Diaphragm Kit – 62MR & 76MR	9, 10, 11, 14, 15, 16	Nitrile: KIT K7604 Viton: KIT K7601
Full Immersion Gasket Kit (5PCS)	18, 19, 20, 22	2½" Valve – KOR62MR12 <b>X</b> * 3" Valve – KOR76MR12 <b>X</b> *
Remote Top Section Kit – Double Stage Valve	7, 8, 9, 10, 11, 12, 13, 14, 15, 16	KV76MR <b>YZX</b>
Blowpipe Kit	19, 20, 21, 22, 23, 24	2½" Valve – KB520G <b>X*</b> -T <b>WU</b> 3" Valve – KB524G <b>X*</b> -T <b>WU</b>
PV Pilot Kit (KIT PV)	1, 2, 3, 4, 5, 6	
Coil Connector (KIT PLG)	3	See Solenoid kit part numbers
SB Coil Kit (KIT SB)	1, 2, 4	on the last page.
Pilot Valve Kit (KIT CP)	1, 2, 5, 6	

#### Part Number Key (Refer product code above)

- X See "Diaphragm Material" (\* Use diaphragm material codes to select gasket material)
- Y See "Pilot Size"
- Z See "Pilot & Secondary Exhaust Thread"
- W See "Blowpipe Type & Size"
- U See "Blowpipe Material"

# 3" CLOSE PITCHED VALVE FOR 12" TANKS

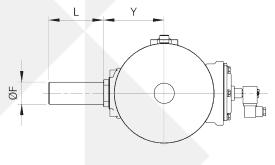
#### PRODUCT LEAFLET

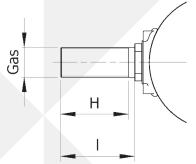
VALVE SPECIFICATIONS	
TOP COVER	Diecast aluminium
BODY	Diecast aluminium
PILOT BASE	Aluminium
PILOT	Stainless steel
MAIN SPOOL	Nylon
SECOMDARY DIAPHRAGM	Nitrile
BOLTS	Stainless steel
DIAPHRAGM BACKING DISK	Stainless steel
DIAPHRAGM SPRING	Stainless steel



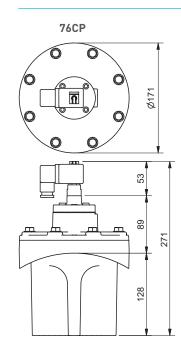
MODEL	PORT SIZE	TANK SIZE	PRESSURE MIN	PRESSURE MAX	KV	CV
76CP	3"	12"	1 BAR	8.6 BAR	200	233

#### **BLOWTUBE SIZING**





#### **VALVE DIMENSIONS**



Ø TANK	ØF	Υ	SHORT UNTHREADED	L	LONG UNTHREADED	L	LONG THREADED	Ø G GAS	Н	1
DN12"	88.9	187.5	TS76CP	80	TL76CP	140	TF76CP	3"	130	140

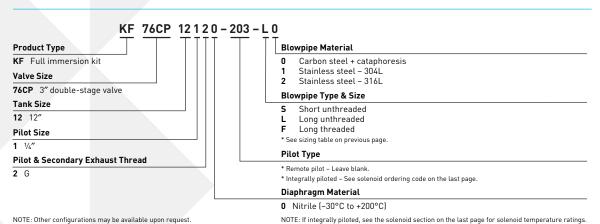
#### **APPROVALS**

76CP - CRN: 0C22172.5

# 3" CLOSE PITCHED VALVE FOR 12" TANKS

PRODUCT LEAFLET

#### PRODUCT ORDERING CODE



NOTE: Other configurations may be available upon request.

#### PRODUCT KIT PART NUMBERS

## **FULL IMMERSION KIT EXPLODED VIEW** 1) CLIP 2) WASHER (3) CONNECTOR (4) COIL (5) PILOT 6 O-RING 7 SCREWS 8 COVER (9) SPRING # (10) DIAPH. ASS'Y (11) BLEED PIN (12) SCREWS (13) COVER (14) O-RING (15) SPRING (16) PISTON ASS'Y (17) BODY (18) O-RING (19) O-RING (20) O-RING (21) SADDLE (22) WASHER (23) RING NUT (24) TUBE

NAME & DESCRIPTION	COMPONENTS	PART NUMBER
FI Kit – Pilot, Blowpipe & Double Stage Valve	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24	Refer to product ordering code.
FI Kit – Blowpipe & Double Stage Valve	7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24	Refer to product ordering code.
Valve Repair Kit	9, 10, 11, 14, 15, 16	K7614
Full Immersion Gasket Kit (5PCS)	18, 19, 20, 22	KOR76CP12 <b>X</b> *
Remote Top Section Kit – Double Stage Valve	7, 8, 9, 10, 11, 12, 13, 14, 15, 16	KV76CP <b>YZX</b>
Blowpipe Kit	19, 20, 21, 22, 23, 24	KB76CP <b>X*</b> -T <b>WU</b>
PV Pilot Kit (KIT PV)	1, 2, 3, 4, 5, 6	
Coil Connector (KIT PLG)	3	See Solenoid kit part numbers
SB Coil Kit (KIT SB)	1, 2, 4	on the last page.
Pilot Valve Kit (KIT CP)	1, 2, 5, 6	

#### Part Number Key (Refer product code above)

- X See "Diaphragm Material" (\* Use diaphragm material codes to select gasket material)
- Y See "Pilot Size"
- Z See "Pilot & Secondary Exhaust Thread"
- W See "Blowpipe Type & Size"
- U See "Blowpipe Material"

# SOLENOID OPTIONS

#### PRODUCT LEAFLET

ELECTRICAL CHARACTERISTICS	
DIN SOCKET CONNECTOR	Pg9 connection (cable entry), standard version
DIN SOCKET SPECIFICATION	EN175301 - 803 (previously DIN 43650A) / A/ISO 4400
DIN SOCKET OPTIONAL	2014/24/EU ATEX II 3GD T6
ISOLATION CLASS DIN SOCKET	VDE 0110 - 1/89
DIN SOCKET PROTECTION	IP65 EN60529, standard version
COPPER WIRE & ISOLATION CLASS	H class (180°C/200°C)

#### PRODUCT ORDERING CODE

# 2 0 5 Voltage options 3 Dual rating: 110V DC 18W or 220/240V 50/60Hz 46/37VA 4 Dual rating: 48V DC 18W or 115V 50/60 Hz 63/53 VA 5 Dual rating: 24V DC 18W or 48V 50/60 Hz 41/32VA 6 Dual rating: 12V DC 18W or 24V 50/60 Hz 38/31 VA Coil connection

0 – Square DIN connector

#### Coil series

2 - DIN 43650 Form B connection

#### ATEX Note:

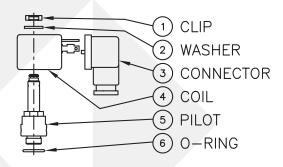
- Add an X after the 3-digit number code.
- For MR & CP Valves only, the X replaces the dash before the blowtube material.
- For product kit part numbers add a X after CODE.

MODEL	TYPE	VOLTAGE (DUAL RATED)	POWER	COLOUR	CODE
206	SB4	12 V DC or 24 V 50/60 Hz (max + 10% supply)	18 W or 38/31 VA	Black	24/50
205	SB4	24 V DC or 48 V 50/60 Hz (max + 10% supply)	18 W or 41/32 VA	Black	24/DC
204	SB4	48 V DC or 110/127 V 50/60 Hz (max + 10% supply)	18 W or 63/53 VA	Black	110/50
203	SB4	110 V DC or 220/240 V 50/60 Hz (max + 10% supply)	18 W or 46/37 VA	Black	220/50

#### **PILOT VALVE SPECIFICATIONS**

TEMP MIN	TEMP MAX	PRESSURE MIN	PRESSURE MAX	KV	CV
-30°C	70°C	0 BAR	8.6 BAR	0.24	0.28

#### KIT EXPLODED VIEW



#### **PRODUCT KIT PART NUMBERS**

NAME & DESCRIPTION	COMPONENTS	PART NUMBER
PV Pilot Kit (KIT PV)	1, 2, 3, 4, 5, 6	KIT PV-CODE
Coil Connector (KIT PLG)	3	Standard – Kit PLG9 ATEX – KIT PLG11-ATEX
SB Coil Kit (KIT SB)	1, 2, 4	KIT SB4- <b>CODE</b> -18W
Pilot Valve Kit (KIT CP)	1, 2, 5, 6	KIT CP1/4

Part Number Key (Refer product code above)

• CODE – See code from the table above, e.g. "24/DC"



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