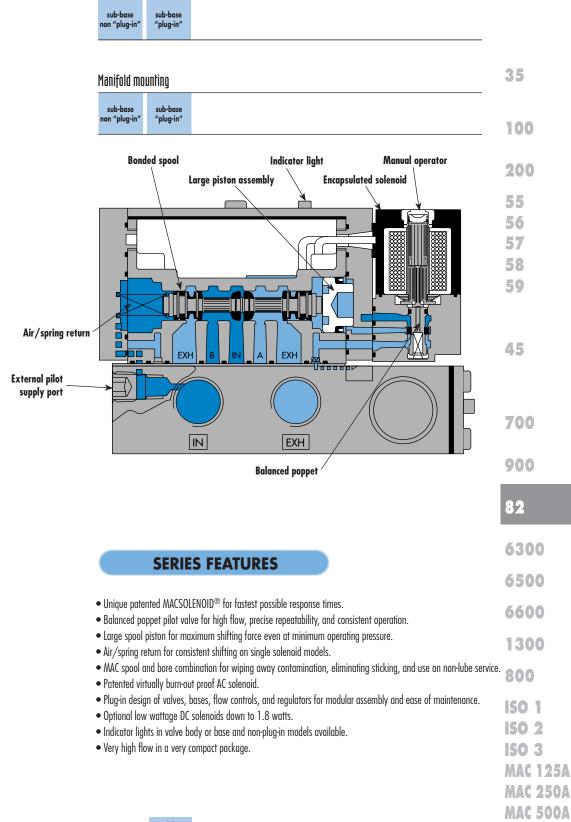
Series

Individual mounting



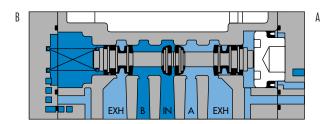




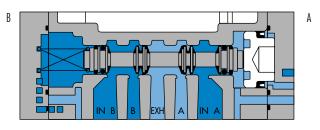




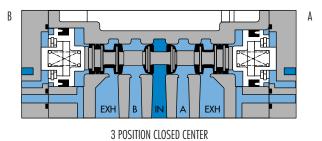
SPOOL CONFIGURATIONS



SINGLE OPERATOR SINGLE INLET - DUAL EXHAUST SHOWN WITH "B" OPERATOR ENERGIZED

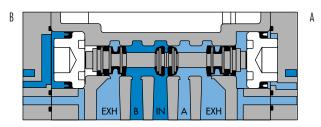


SINGLE OPERATOR DUAL INLET - SINGLE EXHAUST SHOWN WITH "B" OPERATOR ENERGIZED

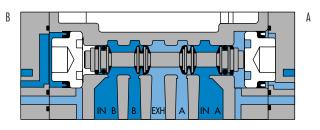


В

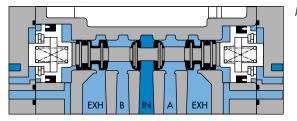
3 POSITION SINGLE PRESSURE PRESSURE CENTER



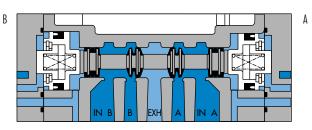
DOUBLE OPERATOR SINGLE INLET - DUAL EXHAUST SHOWN WITH "B" OPERATOR ENERGIZED



DOUBLE OPERATOR
DUAL INLET - SINGLE EXHAUST
SHOWN WITH "B" OPERATOR ENERGIZED



3 POSITION OPEN CENTER



3 POSITION DUAL PRESSURE PRESSURE CENTER



4/2 - 4/3	1/8" - 1/4" - 3/8"	1.35 C _v	sub-base non "plua-in"	
Function	Port size	Flow (Max)	Individual mounting	Series

- 1. Balanced spool, immune to variations of pressure.
- 2. Short stroke with high flow.
- 3. The piston (booster) provides maximum shifting forces.
- 4. Powerful return force thanks to the combination of mechanical and air springs.
- 5. Bonded spool with minimum friction, shifting in a glass-like finished bore.
- 6. Wiping effect eliminates sticking.
- 7. Pilot valve with balanced poppet, high flow, short and consistent response times.
- 8. Long service life.



HOW	T0	ORDER

Port size	Pilot air	4/2 Single operator	4/2 Double operator	4/3 Closed center	4/3 Open center	4/3 Pressure center
		A B B B IN EXH	A B B IN EXH	B A B A SIM TO	B A B A SIM IN EXH	B A B A A A A A A A A A A A A A A A A A
Valve less	base	82A-AB-000-TM-D xxx-xxx	82A-BB-000-TM-D xxx-xxx	82A-EB-000-TM-D xxx-xxx	82A-FB-000-TM-D xxx-xxx	82A-GB-000-TM-D xxx-xxx
sub-base	Internal	82A-AB-AAA-TM-D xxx-xxx	82A-BB-AAA-TM-D xxx-xxx	82A-EB-AAA-TM-Dxxx-xxx	82A-FB-AAA-TM-Dxxx-xxx	82A-GB-AAA-TM-Dxxx-xxx
1/8" NPTF	External	82A-AB-AAD-TM-Dxxx-xxx	82A-BB-AAD-TM-Dxxx-xxx	82A-EB-AAD-TM-Dxxx-xxx	82A-FB-AAD-TM-Dxxx-xxx	82A-GB-AAD-TM-Dxxx-xxx
sub-base	Internal	82A-AB-BAA-TM-Dxxx-xxx	82A-BB-BAA-TM-D xxx-xxx	82A-EB-BAA-TM-Dxxx-xxx	82A-FB-BAA-TM-Dxxx-xxx	82A-GB-BAA-TM-Dxxx-xxx
1/4" NPTF	External	82A-AB-BAD-TM-Dxxx-xxx	82A-BB-BAD-TM-Dxxx-xxx	82A-EB-BAD-TM-Dxxx-xxx	82A-FB-BAD-TM-Dxxx-xxx	82A-GB-BAD-TM-Dxxx-xxx
sub-base	Internal	82A-AB-CAA-TM-Dxxx-xxx	82A-BB-CAA-TM-Dxxx-xxx	82A-EB-CAA-TM-Dxxx-xxx	82A-FB-CAA-TM-Dxxx-xxx	82A-GB-CAA-TM-Dxxx-xxx
3/8" NPTF	External	82A-AB-CAD-TM-Dxxx-xxx	82A-BB-CAD-TM-Dxxx-xxx	82A-EB-CAD-TM-Dxxx-xxx	82A-FB-CAD-TM-Dxxx-xxx	82A-GB-CAD-TM-Dxxx-xxx

SOLENOID OPERATOR ➤

XX	Voltage	X	Wire length	Х	Manual operator	XX	Electrical connection
AA	120/60, 110/50	Α	18" (Flying leads)	1	Non-locking	KA	Square connector
AB	240/60, 220/50	J	Connector	2	Locking	KD	Square connector with light
AC	24/60, 24/50				-	JB	Rectangular connector
FB	24 VDC (1.8 W)					JD	Rectangular connector with light
DA	24 VDC (5.4 W)					BA	Flying leads

 $D \times X \times X \times X$

OPTIONS

82A-<u>A</u>B-000-TM-D**xxx-xxx**

- For dual pressure valves, replace A by C, B by D, E by M, F by L, G by H. (Requires sandwich regulator, see pressure regulator section.)

82A-A<u>B</u>-000-<u>TM</u>-D**xxx-xxx**

- - TP (Piped pilot exhaust)

- For pilot exhaust out main exhaust, replace B by E. Also, TM pilot body is replaced by TU pilot body.

- Main exhaust cannot be restricted. Available only on single pressure valves.

82A-XX-BAA-TM-Dxxx-xxx

- Replace A by B for bottom ports (1/8" or 1/4" only)
 - Replace A by C for side and bottom ports (1/8" or 1/4" only)



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ISO 1 **ISO 2**

ISO 3

MAC 125A MAC 250A

MAC 500A

Note: KD connector shown in photo.

²⁴ VDC (12.7 W) * Other options available, see page 361.







Fluid: Compressed air, vacuum, inert gases

Pressure range: Internal pilot: single operator and 3 positions: 25-150 PSI double operator: 10-150 PSI

External pilot : vacuum to 150 PSI

Pilot pressure: Single operator and 3 positions: 25-150 PSI Double operator: 10-150 PSI

Lubrication: Not required, if used select a medium aniline point lubricant (between 180°F to 210°F)

Filtration: 40

Temperature range: 0°F to 120°F (-18°C to 50°C)

Flow (at 6 bar, ΔP=1bar): 1/8": (0.9 C_V), 1/4": (1.3 C_V), 3/8": (1.35 C_V)

Coil: Epoxy encapsulated - class A wires - Continuous duty.

Voltage range: -15% to +10% of nominal voltage

Protection: Consult factory

Power: ~ Inrush: 10.9 VA Holding: 7.7 VA

= 1.8 to 12.7 W

 Response times:
 24 VDC (5.4 W)
 Energize : 9 ms
 De-energize : 6 ms

 120/60
 Energize : 5-12 ms
 De-energize : 6-13 ms

20,000 Elioly20.0 12 lib 300 olding 20.0 10 lib

• Solenoid operator (power $\geq 5.4~W$) : DXXX-XXX, including mounting screws 35013.

• Seal between solenoid and pilot body: 16402. • Pilot valve: TM-DXXX-XXX, including seal 16447.

• Mounting screw pilot to main valve : 35023. • Pressure seal between valve and base : 16446.

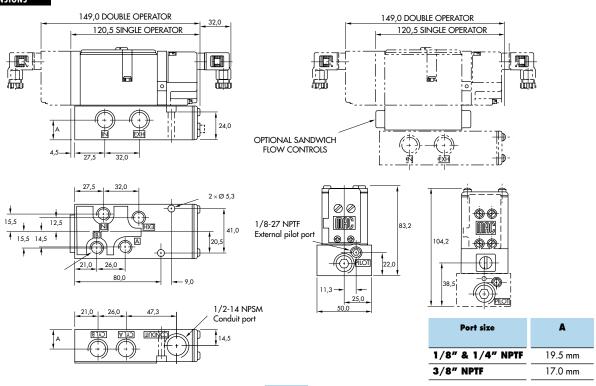
• Mounting screw valve to base (x2) : 35211.

Options : • BSPP threads. • Flow controls (Part N° . FC82A-BA) • Explosion-proof model.

DIMENSIONS

Spare parts:

Dimensions shown are metric (mm)





Function	Port size	Flow (Max)	Individual mounting	Series
4/2 - 4/3	1/8" - 1/4" - 3/8"	1.35 C _v	sub-base "plug-in"	

- 1. Balanced spool, immune to variations of pressure.
- 2. Short stroke with high flow.
- 3. The piston (booster) provides maximum shifting forces.
- 4. Powerful return force thanks to the combination of mechanical and air springs.
- 5. Bonded spool with minimum friction, shifting in a glass-like finished bore.
- 6. Wiping effect eliminates sticking.
- 7. Pilot valve with balanced poppet, high flow, short and consistent response times.
- 8. Long service life.



HOW	T0	ORDER

Port size	Pilot air	4/2 Single operator	4/2 Double operator	4/3 Closed center	4/3 Open center	4/3 Pressure center
		A B B B IN EXH	A B B S S S S S S S S S S S S S S S S S	B A B A B A A B A A A A A A A A A A A A	B A B A B A A B A A B A A B A A B A A B A A B A A B A A B A A B A A B A A B A A B A A B A A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B	B A B A A B A A A A A A A A A A A A A A
Valve less	base	82A-AA-000-TM-D xx P- x DA	82A-BA-000-TM-D xx P- x DA	82A-EA-000-TM-D xx P- x DA	82A-FA-000-TM-D xx P- x DA	82A-GA-000-TM-DxxP-xDA
sub-base	Internal	82A-AA-AAA-TM-D xx P- x DA	82A-BA-AAA-TM-D xx P- x DA	82A-EA-AAA-TM-D xx P- x DA	82A-FA-AAA-TM-D xx P- x DA	82A-GA-AAA-TM-D xx P- x DA
1/8" NPTF	External	82A-AA-AAD-TM-D xx P- x DA	82A-BA-AAD-TM-D xx P- x DA	82A-EA-AAD-TM-D xx P- x DA	82A-FA-AAD-TM-D xx P- x DA	82A-GA-AAD-TM-DxxP-xDA
sub-base	Internal	82A-AA-BAA-TM-D xx P- x DA	82A-BA-BAA-TM-D xx P- x DA	82A-EA-BAA-TM-D xx P- x DA	82A-FA-BAA-TM-D xx P- x DA	82A-GA-BAA-TM-DxxP-xDA
1/4" NPTF	External	82A-AA-BAD-TM-D xx P- x DA	82A-BA-BAD-TM-D xx P- x DA	82A-EA-BAD-TM-D xx P- x DA	82A-FA-BAD-TMDxxP-xDA	82A-GA-BAD-TM-DxxP-xDA
sub-base	Internal	82A-AA-CAA-TM-DxxP-xDA	82A-BA-CAA-TM-DxxP-xDA	82A-EA-CAA-TM-DxxP-xDA	82A-FA-CAA-TM-DxxP-xDA	82A-GA-CAA-TM-DxxP-xDA
3/8" NPTF	External	82A-AA-CAD-TM-DxxP-xDA	82A-BA-CAD-TM-DxxP-xDA	82A-EA-CAD-TM-DxxP-xDA	82A-FA-CAD-TM-DxxP-xDA	82A-GA-CAD-TM-DxxP-xDA

SOLENOID OPERATOR ➤



XX	Voltage	X	Manual operator
AA	120/60, 110/50	1	Non-locking
AB	240/60, 220/50	2	Locking
AC	24/60, 24/50		
FB	24 VDC (1.8 W)		
DA	24 VDC (5.4 W)		
DF	24 VDC (12.7 W)		

Other options available, see page 361.

OPTIONS

82A-<u>AA</u>-000-TM-D**xx**P-**x**DA

- For light in body replace A by C.
- For pilot exhaust out main exhaust replace A by D. For light replace A by F. Use TU pilot body for pilot exhaust to main exhaust, main exhaust cannot be restricted (NO flow controls) available with single pressure valve only. TU replaces TM.
- For piped pilot exhaust replace TM by TP.
- For dual pressure valves, replace A by C, B by D, E by M, F by L, G by H. (Requires sandwich regulator - see pressure regulator section)

82A-AA-BAA-TM-DxxP-xDA

- - Replace A by B for bottom ports (1/8" or 1/4" only)
- - Replace A by C for side and bottom ports (1/8" or 1/4" only)



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ISO 1

ISO 2 ISO 3

> **MAC 125A MAC 250A**

MAC 500A







Fluid: Compressed air, vacuum, inert gases

Pressure range: Internal pilot: single operator and 3 positions: 25-150 PSI double operator: 10-150 PSI

External pilot: vacuum to 150 PSI

Pilot pressure: Single operator and 3 positions: 25-150 PSI Double operator: 10-150 PSI

Lubrication: Not required, if used select a medium aniline point lubricant (between 180°F to 210°F)

40 μ Filtration:

Temperature range: 0°F to 120°F (-18°C to 50°C)

Flow (at 6 bar, $\Delta P = 1 bar$): 1/8": (0.9 C_v), 1/4" (1.3 C_v), 3/8": (1.35 C_v)

Coil: Epoxy encapsulated - class A wires - Continuous duty.

Voltage range: -15% to +10% of nominal voltage

Protection: Consult factory

~ Inrush : 10.9 VA Holding: 7.7 VA Power:

= 1.8 to 12.7 W

Response times: 24 VDC (5.4 W) Energize: 9 ms De-energize: 6 ms

120/60 Energize: 5-12 ms De-energize: 6-13 ms

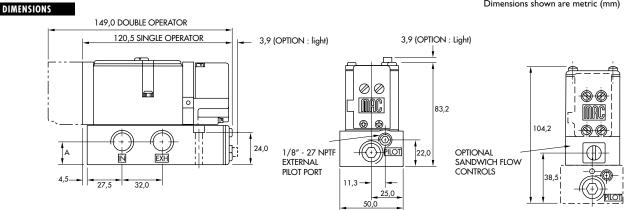
Spare parts: \bullet Solenoid operator (power $\geq 5.4~W$): DXXP-XDA, including mounting screws 35013. \bullet Seal between solenoid and pilot body: 16402.

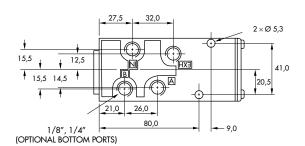
• Pilot valve: TM-DXXP-XDA, including seal 16447. • Mounting screw pilot to main valve: 35023. • Pressure seal between valve and base: 16446.

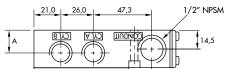
• Mounting screw valve to base (x2): 35211.

 \bullet BSPP threads. \bullet Flow controls (Part N°. FC82A-AA) \bullet Explosion-proof model. \bullet Lights in base. Options:

Dimensions shown are metric (mm)







Port size	A
1/8" - 1/4"	19.5
3/8"	17.0



Function	Port size	Flow (Max)	Manifold mounting	Series
4/2 - 4/3	1/4" - 3/8"	1.35 C _v	sub-base non "plug-in"	

- 1. Balanced spool, immune to variations of pressure.
- 2. Short stroke with high flow.
- 3. The piston (booster) provides maximum shifting forces.
- 4. Powerful return force thanks to the combination of mechanical and air springs.
- 5. Bonded spool with minimum friction, shifting in a glass-like finished bore.
- 6. Wiping effect eliminates sticking.
- 7. Pilot valve with balanced poppet, high flow, short and consistent response times.
- 8. Long service life.



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ISO 1

ISO 2 ISO 3

MAC 125A MAC 250A

MAC 500A

Rectangular connector with

Flying leads

Note: KD connector shown in photo.

HOW TO ORDER

Port size	Pilot air	4/2 Single operator	4/2 Double operator	4/3 Closed center	4/3 Open center	4/3 Pressure center
		A B B III III III III III III III III II	A B B GT IN EXH	B A B A B A A A A A A A A A A A A A A A	B A B A GIW 17D A GIW IN EXH	B A B A B A A A A A A A A A A A A A A A
Valve less	base	82A-AB-000-TM-D xxx-xxx	82A-BB-000-TM-D xxx-xxx	82A-EB-000-TM-D xxx-xxx	82A-FB-000-TM-D xxx-xxx	82A-GB-000-TM-D xxx-xxx
sub-base	Internal	82A-AB-BKA-TM-D xxx-xxx	82A-BB-BKA-TM-D xxx-xxx	82A-EB-BKA-TM-D xxx-xxx	82A-FB-BKA-TM-D xxx-xxx	82A-GB-BKA-TM-D xxx-xxx
1/4" NPTF	External	82A-AB-BKD-TM-Dxxx-xxx	82A-BB-BKD-TM-D xxx-xxx	82A-EB-BKD-TM-D xxx-xxx	82A-FB-BKD-TM-D xxx-xxx	82A-GB-BKD-TM-Dxxx-xxx
sub-base	Internal	82A-AB-CKA-TM-Dxxx-xxx	82A-BB-CKA-TM-D xxx-xxx	82A-EB-CKA-TM-D xxx-xxx	82A-FB-CKA-TM-Dxxx-xxx	82A-GB-CKA-TM-Dxxx-xxx
3/8" NPTF	External	82A-AB-CKD-TM-D <i>xxx-xxx</i>	82A-BB-CKD-TM-D xxx-xxx	82A-EB-CKD-TM-D xxx-xxx	82A-FB-CKD-TM-D xxx-xxx	82A-GB-CKD-TM-Dxxx-xxx

SOLENOID OPERATOR >

D xx x - x xx XX Wire length **Manual operator Electrical connection** Voltage XX 120/60, 110/50 18" (Flying leads) Non-locking KA Square connector 240/60, 220/50 Connector Locking KD Square connectorwith light AC 24/60, 24/50 JB Rectangular connector

24 VDC (1.8 W) FB DA 24 VDC (5.4 W) 24 VDC (12.7 W)

Other options available, see page 361.

OPTIONS

82A-<u>AB</u>-000-TM-Dxxx-xxx

- - For pilot exhaust out main exhaust replace B by E. Also, TM pilot body is replaced by TU pilot body. Main exhaust cannot be restricted (No flow controls) available with single pressure valve only.
- For piped pilot exhaust replace TM by TP.
- For dual pressure valves, replace A by C, B by D, E by M, F by L, G by H. (Requires sandwich regulator - see pressure regulator section)

82A-XX-BKA-TM-Dxxx-xxx

- Replace K by L for bottom cyl. ports
- Replace K by M for bottom inlet port
 - Replace K by N for bottom inlet and cyl. ports
- Replace K by P for bottom and end cyl. ports
 - Replace K by R for bottom and end cyl. ports w/bottom inlet
 - Replace K by S for selector base with side ports







Fluid: Compressed air, vacuum, inert gases

Pressure range: Internal pilot: single operator and 3 positions: 25-150 PSI double operator: 10-150 PSI

External pilot: vacuum to 150 PSI

Pilot pressure: Single operator and 3 positions: 25-150 PSI Double operator: 10-150 PSI

Lubrication: Not required, if used select a medium aniline point lubricant (between 180°F to 210°F)

Filtration: 40 μ

0°F to 120°F (-18°C to 50°C) Temperature range:

Flow (at 6 bar, $\Delta P = 1 bar$): 1/4" (1.3 C_v), 3/8" : (1.35 C_v)

Coil: Epoxy encapsulated - class A wires - Continuous duty.

Voltage range: -15% to +10% of nominal voltage

Protection: Consult factory

~ Inrush : 10.9 VA Holding: 7.7 VA Power:

120/60

= 1.8 to 12.7 W24 VDC (5.4 W)

Energize: 5-12 ms De-energize :6-13 ms

Energize: 9 ms

• Solenoid operator (power ≥ 5.4 W) : DXXX-XXX, including mounting screws 35013.

• Seal between solenoid and pilot body: 16402. • Pilot valve: TM-DXXX-XXX, including seal 16447.

De-energize: 6 ms

• Mounting screw pilot to main valve: 35023. • Pressure seal between valve and base: 16446.

• Mounting screw valve to base (x2): 35211. • Tie-rod (x2): 19731. •-Fastening kit: N-82005-01.

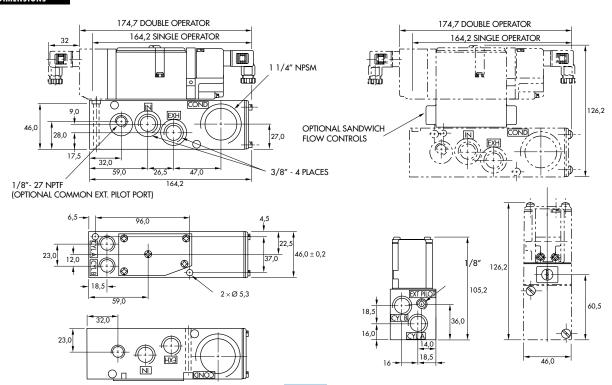
Options: • BSPP threads. • Flow controls (Part N°. FC82A-BA) • Explosion-proof model.

DIMENSIONS

Response times:

Spare parts:

Dimensions shown are metric (mm)





Function	Port size	Flow (Max)	Manifold mounting	Series
4/2 - 4/3	1/4" - 3/8"	1.35 C _v	sub-base "plug-in"	

- 1. Balanced spool, immune to variations of pressure.
- 2. Short stroke with high flow.
- 3. The piston (booster) provides maximum shifting forces.
- 4. Powerful return force thanks to the combination of mechanical and air springs.
- 5. Bonded spool with minimum friction, shifting in a glass-like finished bore.
- 6. Wiping effect eliminates sticking.
- 7. Pilot valve with balanced poppet, high flow, short and consistent response times.
- 8. Long service life.



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999	55

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HOW TO ORDER

Port size	Pilot air	4/2 Single operator	4/2 Double operator	4/3 Closed center	4/3 Open center	4/3 Pressure center
		A B B WWW IN EXH	A B B GT IN EXH	B A B A A A A A A A A A A A A A A A A A	B A B A SIM SIM SIM SIM SIM EXH	B A B A A A A A A A A A A A A A A A A A
Valve less base		82A-AA-000-TM-D xx P- x DA	82A-BA-000-TM-D xx P- x DA	82A-EA-000-TM-D xx P- x DA	82A-FA-000-TM-D xx P- x DA	82A-GA-000-TM-DxxP-xDA
sub-base	Internal	82A-AA-BKA-TM-D xx P- x DA	82A-BA-BKA-TM-D xx P- x DA	82A-EA-BKA-TM-D xx P- x DA	82A-FA-BKA-TM-D xx P- x DA	82A-GA-BKA-TM-D xx P- x DA
1/4" NPTF	External	82A-AA-BKD-TM-D xx P- x DA	82A-BA-BKD-TM-D xx P- x DA	82A-EA-BKD-TM-D xx P- x DA	82A-FA-BKD-TM-D xx P- x DA	82A-GA-BKD-TM-D xx P- x DA
sub-base	Internal	82A-AA-CKA-TM-D xx P- x DA	82A-BA-CKA-TM-D xx P- x DA	82A-EA-CKA-TM-D xx P- x DA	82A-FA-CKA-TM-D xx P- x DA	82A-GA-CKA-TM-D xx P- x DA
3/8" NPTF	External	82A-AA-CKD-TM-DxxP-xDA	82A-BA-CKD-TM-DxxP-xDA	82A-EA-CKD-TM-DxxP-xDA	82A-FA-CKD-TM-DxxP-xDA	82A-GA-CKD-TM-DxxP-xDA

SOLENOID OPERATOR >

X	X	Voltage
Α	Α	120/60, 110/50
Α	В	240/60, 220/50
Α	C	24/60, 24/50
F	В	24 VDC (1.8 W)
D	Α	24 VDC (5.4 W)
D	F	24 VDC (12.7 W)

^{*} Other options available, see page 361.

OPTIONS

82A-<u>AA</u>-000-TM-DxxP-xDA

- For light in body replace A by C.
- For pilot exhaust out main exhaust replace A by D. For light replace A by F.
- Use TU pilot body for pilot exhaust to main exhaust, main exhaust cannot be restricted (No flow controls) available with single pressure valve only. TU replaces TM.

Manual operator

Non-locking Locking

- For piped pilot exhaust replace TM by TP.
- For dual pressure valves, replace A by C, B by D, E by M, F by L, G by H. (Requires sandwich regulator - see pressure regulator section)

82A-XX-BKA-TM-DxxP-xDA

- Replace K by L for bottom cyl. ports
- Replace K by M for bottom inlet port
- Replace K by N for bottom inlet and cyl. ports
- Replace K by P for bottom and end cyl. ports
- Replace K by R for bottom and end cyl. ports w/bottom inlet Replace K by S for selector base with side ports

700

900

82

6300

6500 6600

1300

800

ISO 1 **ISO 2**

ISO 3

MAC 125A

MAC 250A MAC 500A







Fluid: Compressed air, vacuum, inert gases

Internal pilot: single operator and 3 positions: 25-150 PSI double operator: 10-150 PSI Pressure range:

External pilot: vacuum to 150 PSI

Single operator and 3 positions: 25-150 PSI Double operator: 10-150 PSI Pilot pressure:

Lubrication: Not required, if used select a medium aniline point lubricant (between 180°F to 210°F)

Filtration:

Temperature range: 0°F to 120°F (-18°C to 50°C)

Flow (at 6 bar, $\Delta P = 1 bar$): 1/4" (1.3 C_v), 3/8" : (1.35 C_v)

Coil: Epoxy encapsulated - class A wires - Continuous duty.

Voltage range: -15% to +10% of nominal voltage

Protection: Consult factory

~ Inrush : 10.9 VA Holding: 7.7 VA Power:

120/60

= 1.8 to 12.7 W24 VDC (5.4 W)

Energize: 9 ms

Energize: 5-12 ms

• Solenoid operator (power $\geq 5.4~\text{W}$) : DXXP-XDA, including mounting screws 35013. • Seal between solenoid and pilot body: 16402. • Pilot valve: TM-DXXP-XDA, including seal 16447.

• Mounting screw pilot to main valve : 35023. • Pressure seal between valve and base : 16446.

• Mounting screw valve to base (x2): 35211. • Tie-rod (x2): 19731. • Fastening kit: N-82005-01.

Options:

Response times:

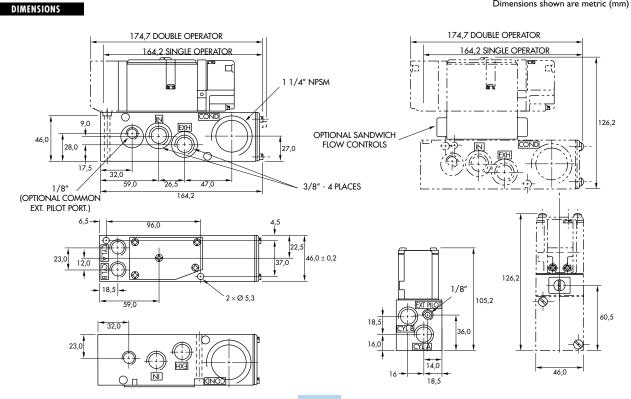
Spare parts:

• BSPP threads. • Flow controls (Part N°. FC82A-AA) • Explosion-proof model. • Lights in base.

Dimensions shown are metric (mm)

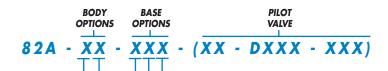
De-energize: 6 ms

De-energize: 6-13 ms





HOW TO ORDER



SPOOL TYPE - VALVE FUNCTION

- Individual base or manifold only
- Single Operator single pressure Double operator sinle pressure
- Single operator dual pressure
- Double operator dual pressure
- 3-position closed center
- 3-position open center
- 3-position single pressure, pressure center
- 3-position dual pressure,* pressure center
- Single solenoid single pressure solenoid on B end
- Single solenoid dual pressure
- solenoid on B end 3-position dual pressure,* open center
- 3-position dual pressure,* closed center
- * Note: For dual pressure w/o regulators consult

BODY TYPE

- Plug-in body
- Non Plug-in body

PORT SIZE - THREAD TYPE

- Valve only no base 0
- 1/8" NPTF
- 1/4" NPTF
- 3/8" NPTF
- 1/8" BSPPL
- 1/4" RSPPI
- 3/8" BSPPL

IND. & MANIFOLD BASE PORT CONFIG.

--Individ ual Base--

- O Valve only no base
- **A** Standard side ports (1/8", 1/4", or 3/8")
- B Bottom ports only*
- C Side and bottom ports*
- D Side inlet, side exhaust, bottom cylinder ports*
- * Bottom ports available in 1/8" & 1/4" only in individual base

-- Manifold Base--

- K Standard ports (1/4" or 3/8" only)
- Bottom cylinder ports*
- M Bottom inlet port
- N Bottom inlet and cylinder ports*
- P Bottom and end cylinder ports*

 R Bottom cylinder & end cylinder ports w/bottom inlet port*
- 5 Selector base standard side ports
- Bottom parts available in 1/4'' & 3/8'' only on manifold. Bottom inlet available 1/4'' only. For bottom O-ring ports, consult factory.

INT. OR EXT. PILOT*

--Internal Pilot--

- O Valve only no base
- A No light in base
- -- External Pilot--
- O Valve only no base
- No light in base
- * Use internal for main valve pressures of 25-150 PSIG. Use external for main valve pressures of 28" Hg vacuum 25 PSIG

PILOT VALVE OPTIONS - (XX - DXXX - XXX)

PILOT EXHAUST

Muffled exhaust

VOLTAGE

12VDC (0,6w) FS 24VDC (0,6w)

LEAD WIRE LENGTH

--Plug-in Valve/Base--

18" 4 48"

--Non Plug-in Valve/Base--18" E 72"

36" J 6"* 48"

* Lead wire length for external plug-in connectors must be "J"

MANUAL OPERATOR

Locking operator Nonlocking extended operator Locking extended operator

2

No manual operator Nonlocking operator

Plug-in 8" - standard

24" **5** 72" 3 36" 6 96"

A 24" **F** 96"

--Non Plug-in Valve/Base--

Grommet

CA Conduit 1/2" NPS

ELECTRICAL CONN.

Plug-in (standard)

--Plug-in Valve/Base--

СМ Metal conduit 1/2" NPS

CN

Metal conduit w/grd. 1/2" NPS

--External Plug-in--

JB Rectangular plug-in JM Rectangular male only

Mini plug-in

ΚJ Mini plug-in male only

TΔ

Dual tabs (.110) w/ receptables

TJ Dual tabs (.110) w/o

receptables

HOW TO ORDER 82 SERIES FLOW CONTROL MODULE*

FC 82A-AA	Plug-in flow control assembly
FC 82A-BA	Non plug-in flow control assembly

*If flow control module is to be installed between valve and base or valve and manifold at the factory, add -9 after the flow control model number, i.e., FC82A-AA-9. The flow control model number should follow the valve model number on which it is to be installed.

NOTE: Reference regulator ordering section if a NOTE: Reference regulator ordering section in a sandwich regulator is required.

NOTE: If a flow control assembly is used with the dual pressure regulator option, only the flow control on the "A" end is functional. (Controls both cylinder ports.)



Codification table for voltages / Wire length / Manual operators / Electrical connections

VALVE CODE > $-D \underbrace{XX}_{1} \underbrace{X}_{2} - \underbrace{X}_{3} \underbrace{XX}_{4}$

OPTIONS AVAILABLE FOR

- Solenoid valves 35, 45 and 82 Series



	1. VOLTAGE
- D XX X - X XX	VOLTAGE
AA	120/60, 110/50
AB	240/60, 220/50
AC	24/60, 24/50
AD	24/60
AE	200/60
AF	240/50
AG	100/50, 100/60, 110/60
DA	24 VDC (5.4 W)
DB	12 VDC (5.4 W)
DC	12 VDC (7.5 W)
DD	24 VDC (7.3 W)
DE	12 VDC (12.7 W) - CLSFonly
DF	24 VDC (12.7 W) - CLSF only
DK	110 VDC (4.7 W)
DL	64 VDC (6 W)
DM	36 VDC (5.3 W)
DN	6 VDC (6 W)
DP	48 VDC (5.8 W)
DU	24 VDC (6 W)
EA	12 VDC (6 W)
FA	12 VDC (1.8 W)
FB	24 VDC (1.8 W)
FE	12 VDC (2.4 W)
FF	24 VDC (2.4 W)

		2. WIRE LENGTH
- D YY	Y . Y YY	WIRE LENGTH
- 0 //		· · · · · · · · · · · · · · · · · · ·
	A	18"
	В	24"
	С	36"
	D	48"
	E	72"
	F	96"
•	J	For external plug-in connector ("J", "K" & "T" type electrical connection)
	P	For plug-in valves (82 Series only)



3

4

Non-locking extended

Locking extended

- D XX X - X XX	MANUAL OPERATOR
0	No operator
1	Non-locking recessed
2	Locking recessed

3. MANUAL OPERATOR

4. ELECTRICAL CONNECTION

- D XX X - X XX **ELECTRICAL CONNECTION** Flying leads BK BA with protection diode BL BA with protection varistor (M.O.V.) ** CA 1/2" NPS conduit ** CM 1/2" NPS metal conduit ** CN 1/2" NPS metal conduit w/ground ** JB Rectangular connector ** JD Rectangular connector with light ** JM Rectangular connector, male only KA Square connector KB Square connector with protection diode KC Square connector with protection varistor (M.O.V.) KD Square connector with light KE Square connector with light and protection diode KF Square connector with light and protection varistor (M.O.V.) KG Square connector with LED light & diode KJ Square connector (male only) KK Square connector with protection diode (male only) KL Square connector with protection varistor (male only) (M.O.V.) TA Dual tabs TB TA with protection diode TD TA with light TA with light and protection diode TE TJ Dual tabs (male only) TK TJ with protection diode TM TJ with light TN TJ with light and protection diode

DA*

DK*

DL*

FM

FN

Plug-in

Plug-in connector

Plug-in with diode

Plug-in with M.O.V.

DA with protection diode

DA with protection varistor (M.O.V.)

FP

To be used with 82 Series only Inline valves only for 35 & 45 series. No restrictions for 82 series.