



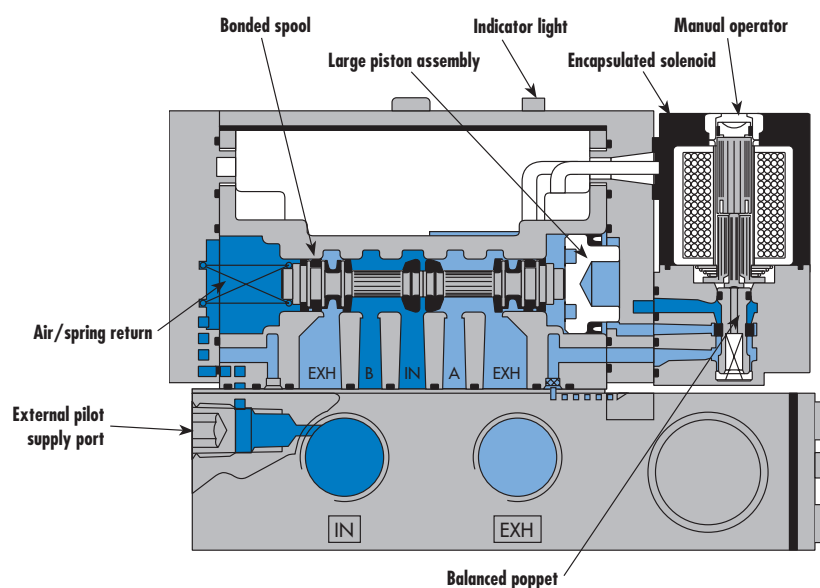
Direct solenoid and solenoid pilot operated valves

Individual mounting

sub-base non "plug-in"	sub-base "plug-in"
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Manifold mounting

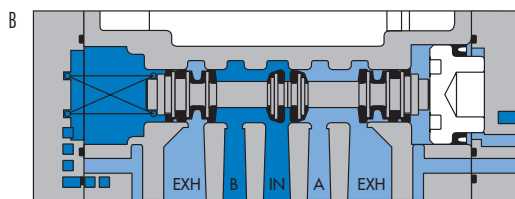
sub-base non "plug-in"	sub-base "plug-in"
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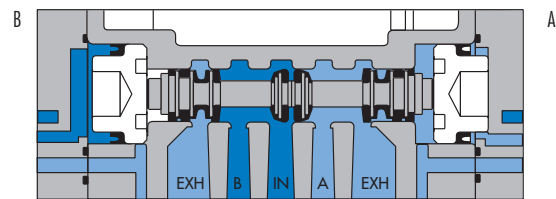
SERIES FEATURES

- Unique patented MACSOLENOID for fastest possible response times.
- Balanced poppet pilot valve for high flow, precise repeatability, and consistent operation.
- Large spool piston for maximum shifting force even at minimum operating pressure.
- Air/spring return for consistent shifting on single solenoid models.
- MAC spool and bore combination for wiping away contamination, eliminating sticking, and use on non-lube service.
- Patented virtually burn-out proof AC solenoid.
- Plug-in design of valves, bases, flow controls, and regulators for modular assembly and ease of maintenance.
- Optional low wattage DC solenoids down to 1.8 watts.
- Indicator lights in valve body or base and non-plug-in models available.
- Very high flow in a very compact package.

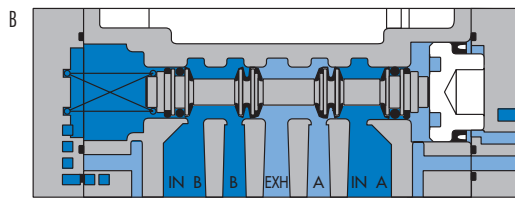
SPOOL CONFIGURATIONS



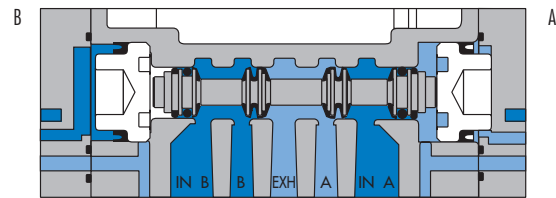
SINGLE OPERATOR
SINGLE INLET - DUAL EXHAUST
SHOWN WITH "B" OPERATOR ENERGIZED



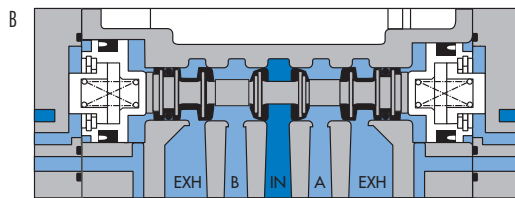
DOUBLE OPERATOR
SINGLE INLET - DUAL EXHAUST
SHOWN WITH "B" OPERATOR ENERGIZED



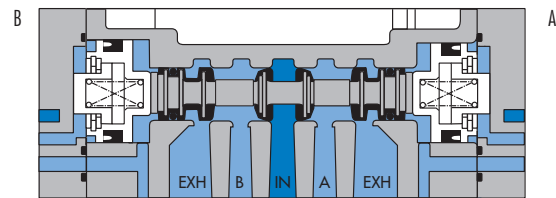
SINGLE OPERATOR
DUAL INLET - SINGLE EXHAUST
SHOWN WITH "B" OPERATOR ENERGIZED



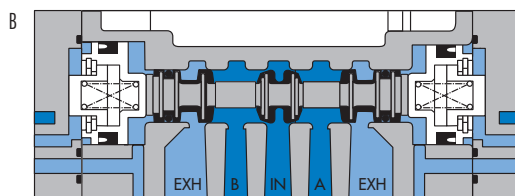
DOUBLE OPERATOR
DUAL INLET - SINGLE EXHAUST
SHOWN WITH "B" OPERATOR ENERGIZED



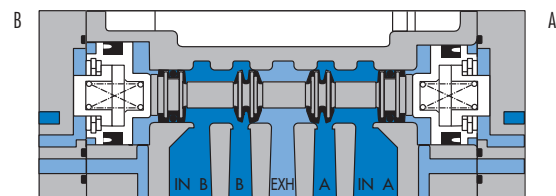
3 POSITION CLOSED CENTER



3 POSITION OPEN CENTER



3 POSITION SINGLE PRESSURE
PRESSURE CENTER



3 POSITION DUAL PRESSURE
PRESSURE CENTER

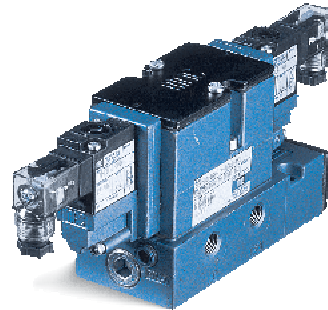


Direct solenoid and solenoid pilot operated valves

Function	Port size	Flow [Max]	Individual mounting
4/2 - 4/3	G1/8" - G1/4" - G3/8"	1350 NI/min	sub-base non "plug-in"

OPERATIONAL BENEFITS

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 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
Valve less base		82A-AB-000-TM-Dxxx-xxx	82A-BB-000-TM-Dxxx-xxx	82A-EB-000-TM-Dxxx-xxx	82A-FB-000-TM-Dxxx-xxx	82A-GB-000-TM-Dxxx-xxx
sub-base	Internal	82A-AB-DAA-TM-Dxxx-xxx	82A-BB-DAA-TM-Dxxx-xxx	82A-EB-DAA-TM-Dxxx-xxx	82A-FB-DAA-TM-Dxxx-xxx	82A-GB-DAA-TM-Dxxx-xxx
G1/8"	External	82A-AB-DAD-TM-Dxxx-xxx	82A-BB-DAD-TM-Dxxx-xxx	82A-EB-DAD-TM-Dxxx-xxx	82A-FB-DAD-TM-Dxxx-xxx	82A-GB-DAD-TM-Dxxx-xxx
sub-base	Internal	82A-AB-EAA-TM-Dxxx-xxx	82A-BB-EAA-TM-Dxxx-xxx	82A-EB-EAA-TM-Dxxx-xxx	82A-FB-EAA-TM-Dxxx-xxx	82A-GB-EAA-TM-Dxxx-xxx
G1/4"	External	82A-AB-EAD-TM-Dxxx-xxx	82A-BB-EAD-TM-Dxxx-xxx	82A-EB-EAD-TM-Dxxx-xxx	82A-FB-EAD-TM-Dxxx-xxx	82A-GB-EAD-TM-Dxxx-xxx
sub-base	Internal	82A-AB-FAA-TM-Dxxx-xxx	82A-BB-FAA-TM-Dxxx-xxx	82A-EB-FAA-TM-Dxxx-xxx	82A-FB-FAA-TM-Dxxx-xxx	82A-GB-FAA-TM-Dxxx-xxx
G3/8"	External	82A-AB-FAD-TM-Dxxx-xxx	82A-BB-FAD-TM-Dxxx-xxx	82A-EB-FAD-TM-Dxxx-xxx	82A-FB-FAD-TM-Dxxx-xxx	82A-GB-FAD-TM-Dxxx-xxx

SOLENOID OPERATOR ►

D **XX X- X XX***

XX	Voltage	X	Wire length	X	Manual operator	XX	Electrical connection
AB	220V~/50Hz	A	45 cm (Flying leads)	1	Non-locking	KA	Square connector
AA	110V~/50Hz	J	Connector	2	Locking	KD	Square connector with light
AC	24V~/50Hz					JB	Rectangular connector
FB	24V~/1,8W					JD	Rectangular connector with light
DA	24V~/5,4W					BA	Flying leads
DF	24V~/12,7W						

Note : KD connector shown in photo.

* Other options available, see page 309.

OPTIONS

82A-AB-000-TM-Dxxx-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-AB-000-TM-Dxxx-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-EAA-TM-Dxxx-xxx

- Replace A by B for bottom ports (G1/8" or G1/4" only)
- Replace A by C for side and bottom ports (G1/8" or G1/4" only)



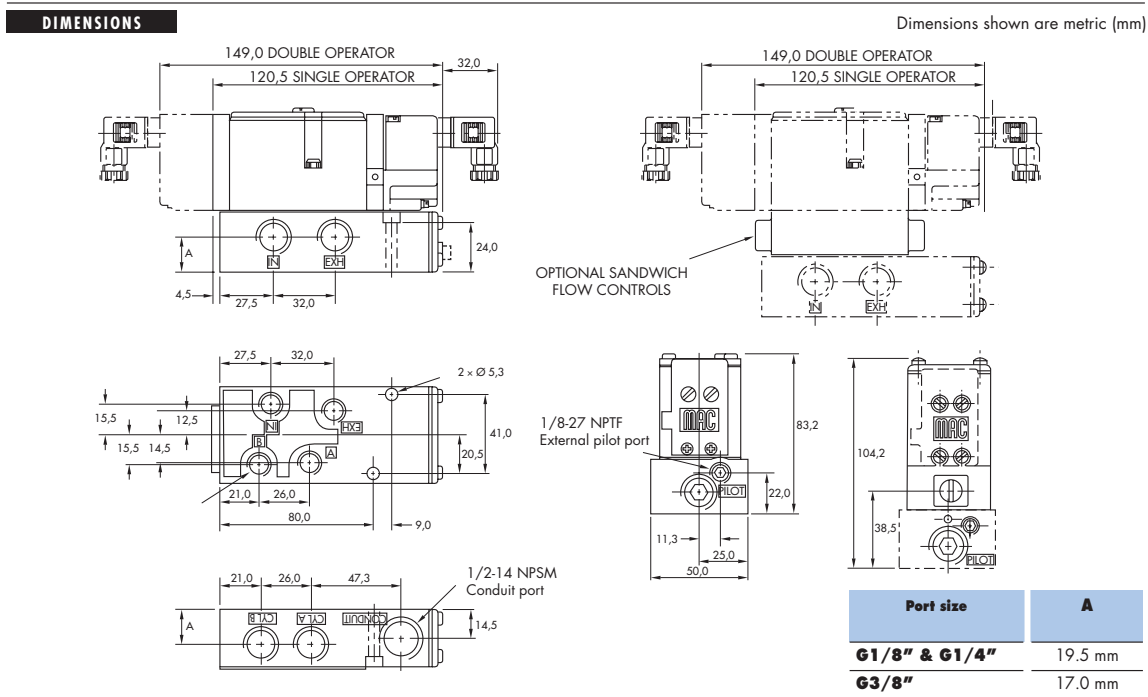
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WARRANTY
18
MONTHS

TECHNICAL DATA			
Fluid :	Compressed air, vacuum, inert gases		
Pressure range :	Internal pilot : single operator and 3 positions : 1.7-10 bar double operator : 0.7-10 bar External pilot : vacuum to 10 bar		
Pilot pressure :	Single operator and 3 positions : 1.7-10 bar Double operator : 0.7-10 bar		
Lubrication :	Not required, if used select a medium aniline point lubricant (between 80°C to 100°C)		
Filtration :	40 µ		
Temperature range :	-18°C to 50°C (0°F to 120°F)		
Flow (at 6 bar, ΔP=1bar) :	G1/8" : 900 NI/min, G1/4" : 1300 NI/min, G3/8" : 1350 NI/min		
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 V=5.4 W	Energize : 9 ms	De-energize : 6 ms
	50Hz/6 W	Energize : 5-12 ms	De-energize : 6-13 ms

- Spare parts :
- 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.
 - Mounting screw pilot to main valve : 35023. • Pressure seal between valve and base : 16446.
 - Mounting screw valve to base (x2) : 35211.

- Options :
- NPTF threads. • Flow controls (Part N°. FC82A-BA).



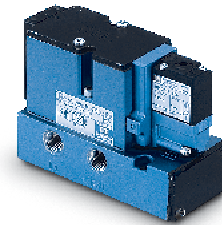


Direct solenoid and solenoid pilot operated valves

Function	Port size	Flow [Max]	Individual mounting
4/2 - 4/3	G1/8" - G1/4" - G3/8"	1350 NI/min	sub-base "plug-in"

OPERATIONAL BENEFITS

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 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
Valve less base		82A-AA-000-TM-DxxP-xDA	82A-BA-000-TM-DxxP-xDA	82A-EA-000-TM-DxxP-xDA	82A-FA-000-TM-DxxP-xDA	82A-GA-000-TM-DxxP-xDA
sub-base	Internal	82A-AA-DAA-TM-DxxP-xDA	82A-BA-DAA-TM-DxxP-xDA	82A-EA-DAA-TM-DxxP-xDA	82A-FA-DAA-TM-DxxP-xDA	82A-GA-DAA-TM-DxxP-xDA
G1/8"	External	82A-AA-DAD-TM-DxxP-xDA	82A-BA-DAD-TM-DxxP-xDA	82A-EA-DAD-TM-DxxP-xDA	82A-FA-DAD-TM-DxxP-xDA	82A-GA-DAD-TM-DxxP-xDA
sub-base	Internal	82A-AA-EAA-TM-DxxP-xDA	82A-BA-EAA-TM-DxxP-xDA	82A-EA-EAA-TM-DxxP-xDA	82A-FA-EAA-TM-DxxP-xDA	82A-GA-EAA-TM-DxxP-xDA
G1/4"	External	82A-AA-EAD-TM-DxxP-xDA	82A-BA-EAD-TM-DxxP-xDA	82A-EA-EAD-TM-DxxP-xDA	82A-FA-EAD-TM-DxxP-xDA	82A-GA-EAD-TM-DxxP-xDA
sub-base	Internal	82A-AA-FAA-TM-DxxP-xDA	82A-BA-FAA-TM-DxxP-xDA	82A-EA-FAA-TM-DxxP-xDA	82A-FA-FAA-TM-DxxP-xDA	82A-GA-FAA-TM-DxxP-xDA
G3/8"	External	82A-AA-FAD-TM-DxxP-xDA	82A-BA-FAD-TM-DxxP-xDA	82A-EA-FAD-TM-DxxP-xDA	82A-FA-FAD-TM-DxxP-xDA	82A-GA-FAD-TM-DxxP-xDA

SOLENOID OPERATOR ►

D **XX** P- **X** DA*

XX	Voltage	X	Manual operator
AB	220V~/50Hz	1	Non-locking
AA	110V~/50Hz	2	Locking
AC	24V~/50Hz		
FB	24V=/1,8W		
DA	24V=/5,4W		
DF	24V=/12,7W		

* Other options available, see page 309.

OPTIONS

82A-AA-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.
- 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-EAA-TM-DxxP-xDA

- Replace A by B for bottom ports (G1/8" or G1/4" only)
- Replace A by C for side and bottom ports (G1/8" or G1/4" only)



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WARRANTY
18
MONTHS

TECHNICAL DATA

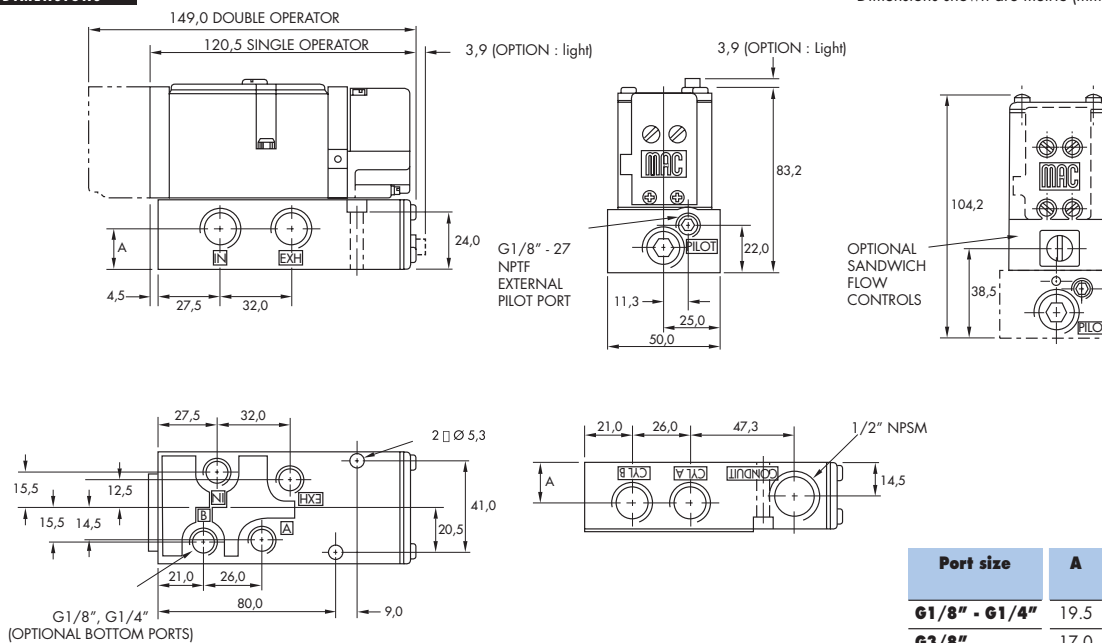
Fluid :	Compressed air, vacuum, inert gases		
Pressure range :	Internal pilot : single operator and 3 positions : 1.7-10 bar double operator : 0.7-10 bar External pilot : vacuum to 10 bar		
Pilot pressure :	Single operator and 3 positions : 1.7-10 bar Double operator : 0.7-10 bar		
Lubrication :	Not required, if used select a medium aniline point lubricant (between 80°C to 100°C)		
Filtration :	40 µ		
Temperature range :	-18°C to 50°C (0°F to 120°F)		
Flow (at 6 bar, ΔP=1bar) :	G1/8" : 900 NI/min, G1/4" : 1300 NI/min, G3/8" : 1350 NI/min		
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 V=5.4 W	Energize : 9 ms	De-energize : 6 ms
	50Hz/6 W	Energize : 5-12 ms	De-energize : 6-13 ms

Spare parts : • Solenoid operator (power ≥ 5.4 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.

Options : • NPTF threads. • Flow controls (Part N°: FC82A-AA) • Lights in base.

DIMENSIONS

Dimensions shown are metric (mm)



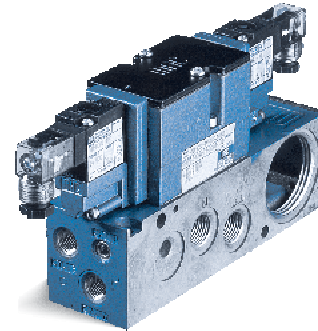


Direct solenoid and solenoid pilot operated valves

Function	Port size	Flow (Max)	Manifold mounting
4/2 - 4/3	G1/4" - G3/8"	1350 NI/min	sub-base non "plug-in"

OPERATIONAL BENEFITS

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 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
Valve less base		82A-AB-000-TM-Dxxx-xxx	82A-BB-000-TM-Dxxx-xxx	82A-EB-000-TM-Dxxx-xxx	82A-FB-000-TM-Dxxx-xxx	82A-GB-000-TM-Dxxx-xxx
sub-base	Internal	82A-AB-EKA-TM-Dxxx-xxx	82A-BB-EKA-TM-Dxxx-xxx	82A-EB-EKA-TM-Dxxx-xxx	82A-FB-EKA-TM-Dxxx-xxx	82A-GB-EKA-TM-Dxxx-xxx
G1/4"	External	82A-AB-EKD-TM-Dxxx-xxx	82A-BB-EKD-TM-Dxxx-xxx	82A-EB-EKD-TM-Dxxx-xxx	82A-FB-EKD-TM-Dxxx-xxx	82A-GB-EKD-TM-Dxxx-xxx
sub-base	Internal	82A-AB-FKA-TM-Dxxx-xxx	82A-BB-FKA-TM-Dxxx-xxx	82A-EB-FKA-TM-Dxxx-xxx	82A-FB-FKA-TM-Dxxx-xxx	82A-GB-FKA-TM-Dxxx-xxx
G3/8"	External	82A-AB-FKD-TM-Dxxx-xxx	82A-BB-FKD-TM-Dxxx-xxx	82A-EB-FKD-TM-Dxxx-xxx	82A-FB-FKD-TM-Dxxx-xxx	82A-GB-FKD-TM-Dxxx-xxx

SOLENOID OPERATOR ➤

D **XX X** - X **XX** *

XX	Voltage	X	Wire length	X	Manual operator	XX	Electrical connection
AB	220V~/50Hz	A	45 cm (Flying leads)	1	Non-locking	KA	Square connector
AA	110V~/50Hz	J	Connector	2	Locking	KD	Square connector with light
AC	24V~/50Hz					JB	Rectangular connector
FB	24V~/1,8W					JD	Rectangular connector with light
DA	24V~/5,4W					BA	Flying leads
DF	24V~/12,7W						

* Other options available, see page 309.

Note : KD connector shown in photo.

OPTIONS

82A-AB-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-EKA-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



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WARRANTY
18
MONTHS

TECHNICAL DATA

Fluid :	Compressed air, vacuum, inert gases		
Pressure range :	Internal pilot : single operator and 3 positions : 1.7-10 bar double operator : 0.7-10 bar External pilot : vacuum to 10 bar		
Pilot pressure :	Single operator and 3 positions : 1.7-10 bar Double operator : 0.7-10 bar		
Lubrication :	Not required, if used select a medium aniline point lubricant (between 80°C to 100°C)		
Filtration :	40 µ		
Temperature range :	-18°C to 50°C (0°F to 120°F)		
Flow (at 6 bar, ΔP=1bar) :	G1/4" : 1300 NI/min, G3/8" : 1350 NI/min		
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 V=5.4 W	Energize : 9 ms	De-energize : 6 ms
	50Hz/6 W	Energize : 5-12 ms	De-energize : 6-13 ms

Spare parts :

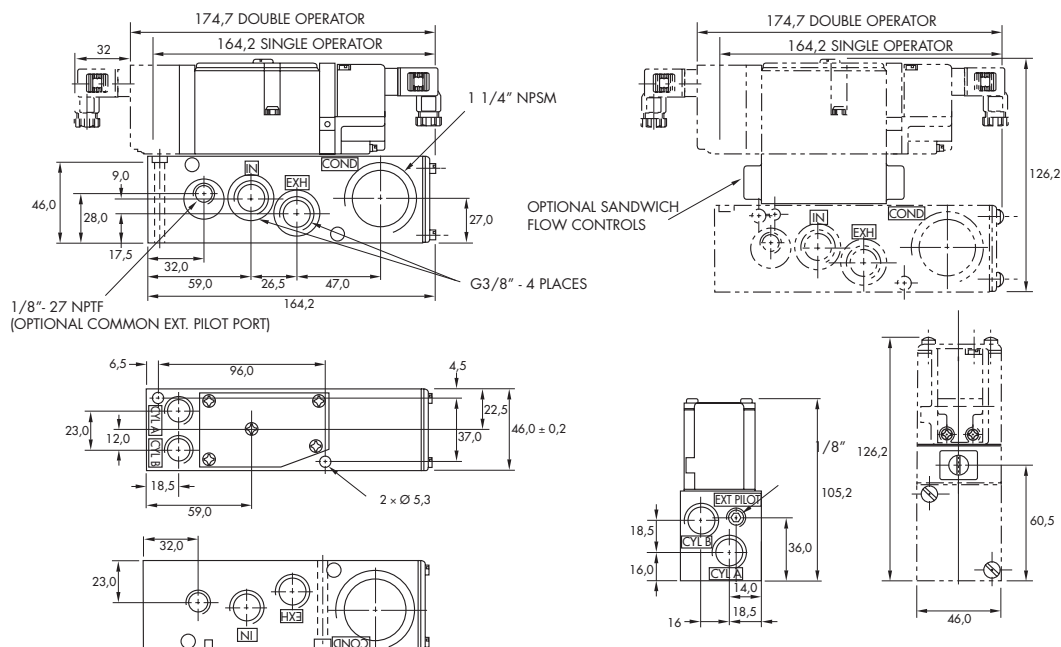
- Solenoid operator (power ≥ 5.4 W) : DXXX-XXX, including mounting screws 35013.
- Seal between solenoid and pilot body : 16402. • Pilot valve : TM-DXXX-XXX, including seal 16447.
- Mounting screw pilot to main valve : 35023. • Pressure seal between valve and base : 16446.
- Mounting screw valve to base (x2) : 35211. • Tie-rod (x2) : 19731. • Fastening kit : N-82005-01.

Options :

- NPTF threads. • Flow controls (Part N°. FC82A-BA).

DIMENSIONS

Dimensions shown are metric (mm)



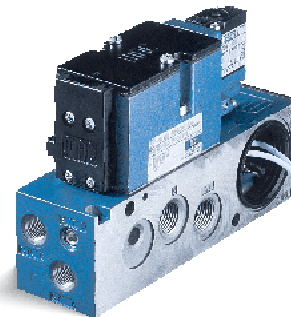


Direct solenoid and solenoid pilot operated valves

Function	Port size	Flow [Max]	Manifold mounting
4/2 - 4/3	G1/4" - G3/8"	1350 NI/min	sub-base "plug-in"

OPERATIONAL BENEFITS

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 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
Valve less base		82A-AA-000-TM-DxxP-xDA	82A-BA-000-TM-DxxP-xDA	82A-EA-000-TM-DxxP-xDA	82A-FA-000-TM-DxxP-xDA	82A-GA-000-TM-DxxP-xDA
sub-base	Internal	82A-AA-EKA-TM-DxxP-xDA	82A-BA-EKA-TM-DxxP-xDA	82A-EA-EKA-TM-DxxP-xDA	82A-FA-EKA-TM-DxxP-xDA	82A-GA-EKA-TM-DxxP-xDA
G1/4"	External	82A-AA-EKD-TM-DxxP-xDA	82A-BA-EKD-TM-DxxP-xDA	82A-EA-EKD-TM-DxxP-xDA	82A-FA-EKD-TM-DxxP-xDA	82A-GA-EKD-TM-DxxP-xDA
sub-base	Internal	82A-AA-FKA-TM-DxxP-xDA	82A-BA-FKA-TM-DxxP-xDA	82A-EA-FKA-TM-DxxP-xDA	82A-FA-FKA-TM-DxxP-xDA	82A-GA-FKA-TM-DxxP-xDA
G3/8"	External	82A-AA-FKD-TM-DxxP-xDA	82A-BA-FKD-TM-DxxP-xDA	82A-EA-FKD-TM-DxxP-xDA	82A-FA-FKD-TM-DxxP-xDA	82A-GA-FKD-TM-DxxP-xDA

SOLENOID OPERATOR ➤

D **XX** P- **X** DA*

XX	Voltage	X	Manual operator
AB	220V~/50Hz	1	Non-locking
AA	110V~/50Hz	2	Locking
AC	24V~/50Hz		
FB	24V~/1,8W		
DA	24V~/5,4W		
DF	24V~/12,7W		

* Other options available, see page 309.

OPTIONS

82A-AA-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.
- 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-EKA-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



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WARRANTY
18
MONTHS

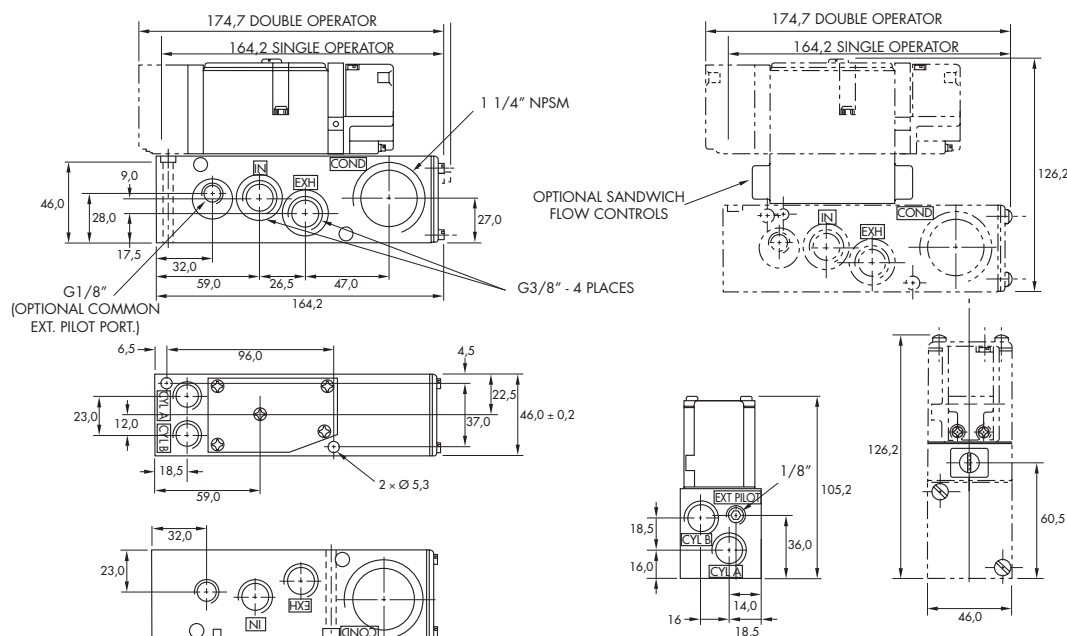
TECHNICAL DATA

Fluid :	Compressed air, vacuum, inert gases		
Pressure range :	Internal pilot : single operator and 3 positions : 1.7-10 bar double operator : 0.7-10 bar External pilot : vacuum to 10 bar		
Pilot pressure :	Single operator and 3 positions : 1.7-10 bar Double operator : 0.7-10 bar		
Lubrication :	Not required, if used select a medium aniline point lubricant (between 80°C to 100°C)		
Filtration :	40 µ		
Temperature range :	-18°C to 50°C (0°F to 120°F)		
Flow (at 6 bar, ΔP=1bar) :	G1/4" : 1300 NI/min, G3/8" : 1350 NI/min		
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 V=5.4 W	Energize : 9 ms	De-energize : 6 ms
	50Hz/6 W	Energize : 5-12 ms	De-energize : 6-13 ms

- Spare parts :
- Solenoid operator (power ≥ 5.4 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 :
- NPTF threads. • Flow controls (Part N°. FC82A-AA) • Lights in base.

DIMENSIONS

Dimensions shown are metric (mm)



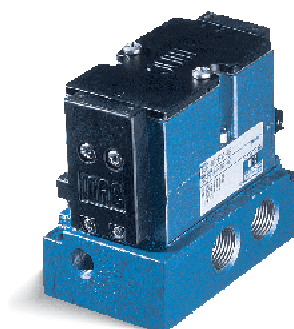


Remote air valves

Function	Port size	Flow (Max)	Individual mounting
4/2 - 4/3	G1/8" - G1/4" - G3/8"	1350 NI/min	sub-base

OPERATIONAL BENEFITS

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 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. Low leakage rate.



HOW TO ORDER

Port size	4/2 Single operator	4/2 Double operator	4/3 Closed center	4/3 Open center	4/3 Pressure center
Valve less base	82A-AB-000-RA	82A-BB-000-RA	82A-EB-000-RA	82A-FB-000-RA	82A-GB-000-RA
Sub-base G1/8"	82A-AB-DAA-RA	82A-BB-DAD-RA	82A-EB-DAD-RA	82A-FB-DAD-RA	82A-GB-DAD-RA
Sub-base G1/4"	82A-AB-EAA-RA	82A-BB-EAD-RA	82A-EB-EAD-RA	82A-FB-EAD-RA	82A-GB-EAD-RA
Sub-base G3/8"	82A-AB-FAA-RA	82A-BB-FAD-RA	82A-EB-FAD-RA	82A-FB-FAD-RA	82A-GB-FAD-RA

OPTIONS

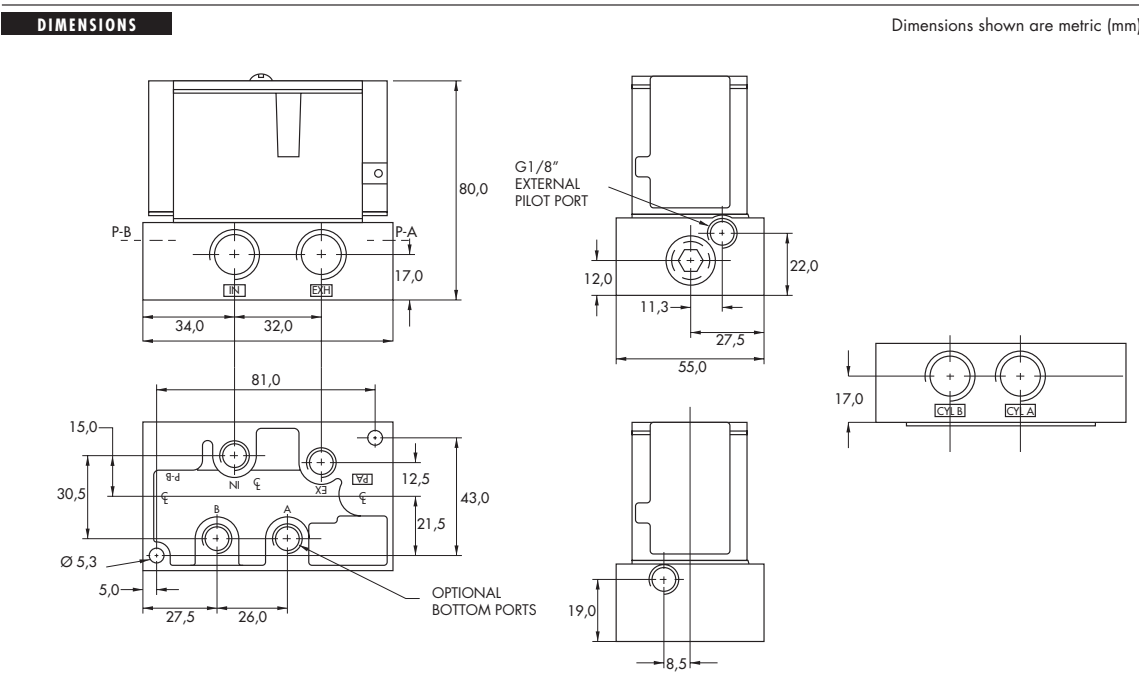
82A-AB-000-RA

- For dual pressure valves, replace A by C, B by D, E by M, F by L, G by H.



TECHNICAL DATA	
Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Vacuum to 10 bar
Air signal pressure :	Single operator and 3 positions : 1.7 to 10 bar $\geq$ main valve pressure Double operator : 0.7 to 10 bar
Lubrication :	Not required, if used select a medium aniline point lubricant (between 80°C to 100°C)
Filtration :	40 μ
Temperature range :	-18°C to 50°C (0°F to 120°F)
Flow (at 6 bar, $\Delta P=1\text{bar}$) :	G1/8" : 900 NI/min, G1/4" : 1300 NI/min, G3/8" : 1350 NI/min

- Spare parts :
- Remote air adapter assy.: R-82003.
- Options :
- NPTF threads.



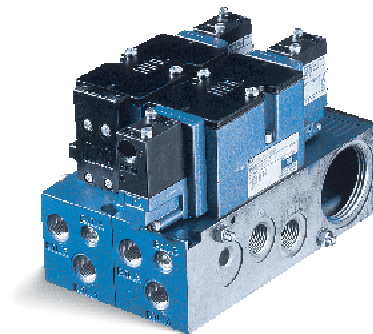


Remote air valves

Function	Port size	Flow [Max]	Manifold mounting
4/2 - 4/3	G1/4" - G3/8"	1350 NI/min	sub-base

OPERATIONAL BENEFITS

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 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. Low leakage rate.



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
Valve less base	Internal only	82A-AB-000-TM-RA14	82A-BB-000-TM-RA14	82A-EB-000-TM-RA14	82A-FB-000-TM-RA14	82A-GB-000-TM-RA14
Sub-base	Internal	82A-AB-EKA-TM-RA14	82A-BB-EKA-TM-RA14	82A-EB-EKA-TM-RA14	82A-FB-EKA-TM-RA14	82A-GB-EKA-TM-RA14
G1/4"	External	82A-AB-EKD-TM-RA14	82A-BB-EKD-TM-RA14	82A-EB-EKD-TM-RA14	82A-FB-EKD-TM-RA14	82A-GB-EKD-TM-RA14
Sub-base	Internal	82A-AB-FKA-TM-RA14	82A-BB-FKA-TM-RA14	82A-EB-FKA-TM-RA14	82A-FB-FKA-TM-RA14	82A-GB-FKA-TM-RA14
G3/8"	External	82A-AB-FKD-TM-RA14	82A-BB-FKD-TM-RA14	82A-EB-FKD-TM-RA14	82A-FB-FKD-TM-RA14	82A-GB-FKD-TM-RA14

OPTIONS

82A-AB-000-TM-RA14

— For dual pressure valves, replace A by C, B by D, E by M, F by L, G by H.

Manifold fastening kit : N-82005-01P.





0 p t i o n s

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

VALVE CODE ➤

-D XX X - X XX
1 2 3 4

1. VOLTAGE		2. WIRE LENGTH	
- D XX X - X XX	VOLTAGE	- D XX X - X XX	WIRE LENGTH
AA	120 V~/60 Hz - 110 V/50 Hz	A	45 cm - 18"
AB	240 V~/60 Hz - 220 V/50 Hz	B	60 cm - 24"
AC	24 V~/60 Hz - 24 V/50 Hz	C	90 cm - 36"
AD	24 V~/60 Hz	D	120 cm - 48"
AE	200 V~/60 Hz	E	180 cm - 72"
AF	240 V~/50 Hz	F	240 cm - 96"
AG	240 V~/50 Hz	J	For external plug-in connector ("J", "K" & "T" type electrical connection)
DA	24 V=/5,4 W	P	For plug-in valves (82 Series only)
DB	12 V=/5,4 W	4. ELECTRICAL CONNECTION	
DC	12 V=/7,5 W	- D XX X - X XX	ELECTRICAL CONNECTION
DD	24 V=/7,3 W	BA	Flying leads
DE	12 V=/12,7 W CLSF only	BK	BA with protection diode
DF	24 V=/12,7 W CLSF only	BL	BA with protection varistor (M.O.V.)
DK	110 V=/4,7 W	** CA	1/2" NPS conduit
DL	64 V=/6 W	** CM	1/2" NPS metal conduit
DM	36 V=/5,3 W	** CN	1/2" NPS metal conduit w/ground
DN	6 V=/6 W	** JB	Rectangular connector
DP	48 V=/5,8 W	** JD	Rectangular connector with light
DU	24 V=/6 W	** JM	Rectangular connector, male only
EA	12 V=/6 W	KA	Square connector
FA	12 V=/1,8 W	KB	Square connector with protection diode
FB	24 V=/1,8 W	KC	Square connector with protection varistor (M.O.V.)
FE	12 V=/2,4 W	KD	Square connector with light
FF	24 V=/2,4 W	KE	Square connector with light and protection diode
3. MANUAL OPERATOR		KF	Square connector with light and protection varistor (M.O.V.)
- D XX X - X XX	MANUAL OPERATOR	KG	Square connector with LED light & diode
0	No operator	KJ	Square connector (male only)
1	Non-locking recessed	KK	Square connector with protection diode (male only)
2	Locking recessed	KL	Square connector with protection varistor (male only) (M.O.V.)
3	Non-locking extended	*** MA	Electrical common conduit
4	Locking extended	TA	Dual tabs
		TB	TA with protection diode
		TD	TA with light
		TE	TA with light and protection diode
		TJ	Dual tabs (male only)
		TK	TJ with protection diode
		TM	TJ with light
		TN	TJ with light and protection diode
		DA*	Plug-in connector
		DK*	DA with protection diode
		DL*	DA with protection varistor (M.O.V.)

* To be used with 82 Series only

** Inline valves only for 35 & 45 series. No restrictions for 82 series.

*** Stacking valves only for 35 & 45 series. Conduit end plate kit required, one per stack.

35 series : M-35002-01P

45 series : M-45005-01P

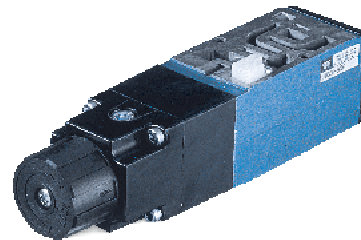


P r e s s u r e r e g u l a t o r s

Sandwich pressure regulator with manual adjust locking knob.

OPERATIONAL BENEFITS

1. Easy mounting : saves on installation costs in comparison with inline regulators.
2. Allows to have compact, all-included units.
3. Large orifice provides high flow.
4. Various functions available.
5. Simple, reliable and solid design.



HOW TO ORDER

REGULATORS FOR "PLUG-IN" VALVES

Gauges	Single pressure Regulator A end Same regulated pressure to ports A and B	Dual pressure Regulator A end Regulated pressure to port A *	Dual pressure Regulator B end Regulated pressure to port B *	Dual pressure Dual regulator Two regulated pressures to ports A and B *
No gauge	PR82A-GADA	PR82A-GCDA	PR82A-GBDA	PR82A-GDDA
Gauge parallel to regulator	PR82A-GACA	PR82A-GCCA	PR82A-GBCA	PR82A-GDCA
Gauge perpendicular to regulator	PR82A-GABA	PR82A-GCBA	PR82A-GBBA	PR82A-GDBA

REGULATORS FOR "NON PLUG-IN" AND REMOTE AIR VALVES

Gauges	Single pressure Regulator A end Same regulated pressure to ports A and B	Dual pressure Regulator A end Regulated pressure to port A *	Dual pressure Regulator B end Regulated pressure to port B *	Dual pressure Dual regulator Two regulated pressures to ports A and B *
No gauge	PR82A-HADA	PR82A-HCDA	PR82A-HBDA	PR82A-HDDA
Gauge parallel to regulator	PR82A-HACA	PR82A-HCCA	PR82A-HBCA	PR82A-HDCA
Gauge perpendicular to regulator	PR82A-HABA	PR82A-HCBA	PR82A-HBBA	PR82A-HDBA

Note : regulating range for above models is 0-8 bar. For other ranges see technical data page.

* To be used with dual pressure valves.

ADJUSTMENT OPTIONS

PR82A-xxxx

- Replace by A for "plug-in" with slotted stem adjustment.
- Replace by B for "non plug-in" with slotted stem adjustment.
- Replace by K for "plug-in" with locking slotted stem adjustment.
- Replace by L for "non plug-in" with locking slotted stem adjustment.

**SELECTOR OPTIONS selects pressure to inlet of adjacent valve.

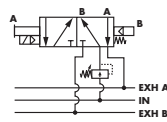
PR82A-xxxx

- Replace by S for dual regulators.
- Replace by T for regulator on "B" end with by-pass on "A" end.

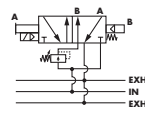
** This option must be used with a single pressure valve and selector manifold base.

Manual adjust

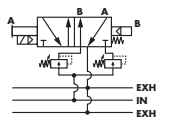
Single regulator
Single pressure



Single regulator
Dual pressure



Dual regulator
Dual pressure





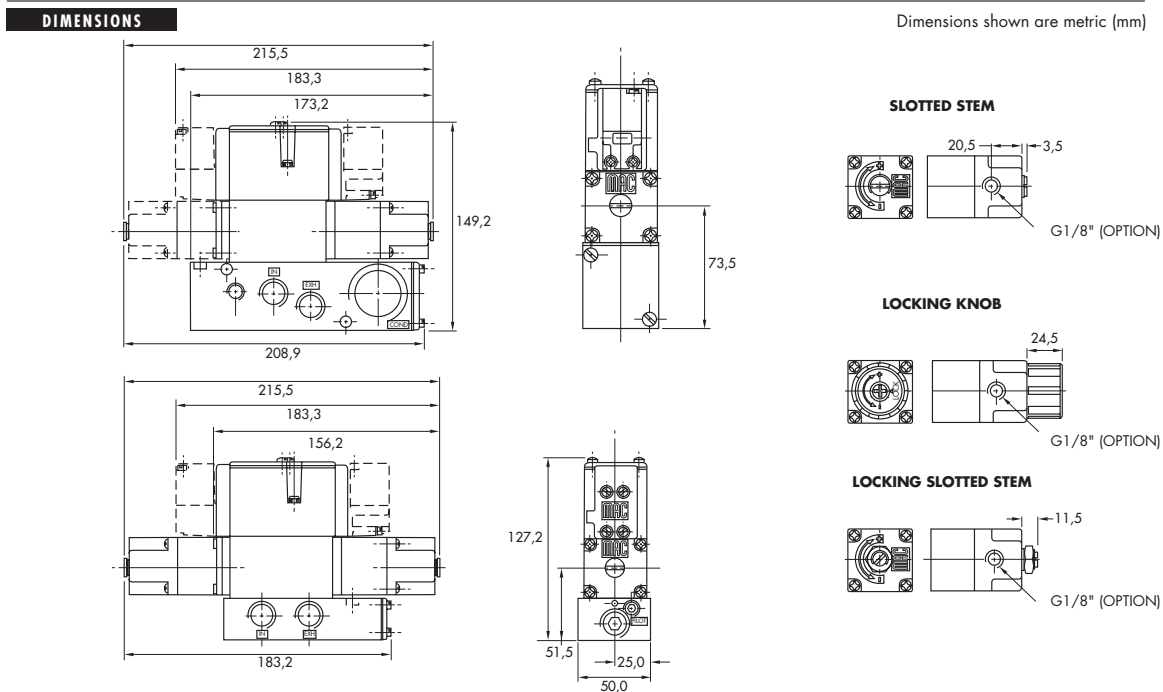
100%
OF
PRODUCTION
TESTED
100%

WARRANTY
18
MONTHS

TECHNICAL DATA	
Fluid :	Compressed air, inert gases
Pressure range :	0 to 10 bar
Regulating range :	0 to 8 bar (other ranges see below)
Lubrication :	Not required, if used select a medium aniline point lubricant (between 80°C to 100°C)
Filtration :	40 µ
Temperature range :	-18°C to 50°C (0°F to 120°F)
Flow :	1080 NI/min

- Spare parts :
- Pressure regulator (less sandwich block) : PR82A-J0AA (KNOB), PR82A-C0AA (SLOTTED STEM), PR82A-M0AA (LOCKING SLOTTED STEM).
 - Gauges : N-82016-01 (0-8 bar perpendicular)
N-82016-02 (0-8 bar parallel)
N-82016-03 (0-5.3 bar perpendicular)
N-82016-04 (0-5.3 bar parallel)
N-82016-05 (0-2 bar perpendicular)
N-82016-06 (0-2 bar parallel)

- Regulating range options : PR82A-XXXA
- Replace by B - 0 to 5.3 bar
 - Replace by C - 0 to 2 bar
 - Replace by D - 0 to 8 bar on "A" end
- 0 to 5.3 bar on "B" end
 - Replace by E - 0 to 8 bar on "B" end
- 0 to 5.3 bar on "A" end
 - Replace by F - 0 to 8 bar on "A" end
- 0 to 2 bar on "B" end
 - Replace by G - 0 to 8 bar on "B" end
- 0 to 2 bar on "A" end
 - Replace by H - 0 to 5.3 bar on "A" end
- 0 to 2 bar on "B" end
 - Replace by J - 0 to 5.3 bar on "B" end
- 0 to 2 bar on "A" end





P r e s s u r e r e g u l a t o r s

Sandwich pressure regulator with air pilot adjust.

OPERATIONAL BENEFITS

1. Easy mounting : saves on installation costs in comparison with inline regulators.
2. Allows to have compact, all-included units.
3. Large orifice provides high flow.
4. Various functions available.
5. Simple, reliable and solid design.



HOW TO ORDER

REGULATORS FOR "PLUG-IN" VALVES

Gauges	Single pressure Regulator A end Same regulated pressure to ports A and B	Dual pressure Regulator A end Regulated pressure to port A	Dual pressure Regulator B end Regulated pressure to port B	Dual pressure Dual regulator Two regulated pressures to ports A and B
No gauge	PR82A-DADA	PR82A-DCDA	PR82A-DBDA	PR82A-DDDA
Gauge parallel to regulator	PR82A-DACA	PR82A-DCCA	PR82A-DBCA	PR82A-DDCA
Gauge perpendicular to regulator	PR82A-DABA	PR82A-DCBA	PR82A-DBBA	PR82A-DDBA

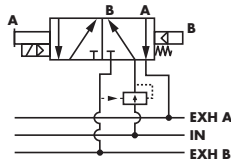
REGULATORS FOR "NON PLUG-IN" AND REMOTE AIR VALVES

Gauges	Single pressure Regulator A end Same regulated pressure to ports A and B	Dual pressure Regulator A end Regulated pressure to port A	Dual pressure Regulator B end Regulated pressure to port B	Dual pressure Dual regulator Two regulated pressures to ports A and B
No gauge	PR82A-EADA	PR82A-ECDA	PR82A-EBDA	PR82A-EDDA
Gauge parallel to regulator	PR82A-EACA	PR82A-ECCA	PR82A-EBCA	PR82A-EDCA
Gauge perpendicular to regulator	PR82A-EABA	PR82A-ECBA	PR82A-EBBA	PR82A-EDBA

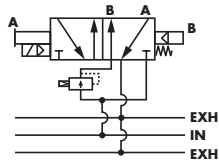
* To be used with dual pressure valves.

Air adjust

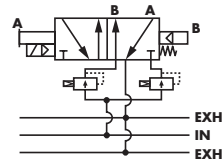
Single
regulator
Single
pressure



Single
regulator
Dual pressure



Dual regulator
Dual pressure





TECHNICAL DATA	
Fluid :	Compressed air, inert gases
Pressure range :	0 to 10 bar
Regulating range :	0 to 8 bar
Lubrication :	Not required, if used select a medium aniline point lubricant (between 80°C to 100°C)
Filtration :	40 µ
Temperature range :	-18°C to 50°C (0°F to 120°F)
Flow :	1080 NI/min

- Spare parts :
- Pressure regulator (less sandwich block) : PR82A-F0AA.
 - Gauges : N-82016-01 (0-8 bar perpendicular)
N-82016-02 (0-8 bar parallel)

