

Individual mounting

sub-base non "plug-in"	sub-base "plug-in"

Series

Manifold mounting

sub-base non "plug-in"	sub-base "plug-in"

35

100

200

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56

57

58

59

45

700

900

82

6300

6500

6600

1300

800

ISO 1

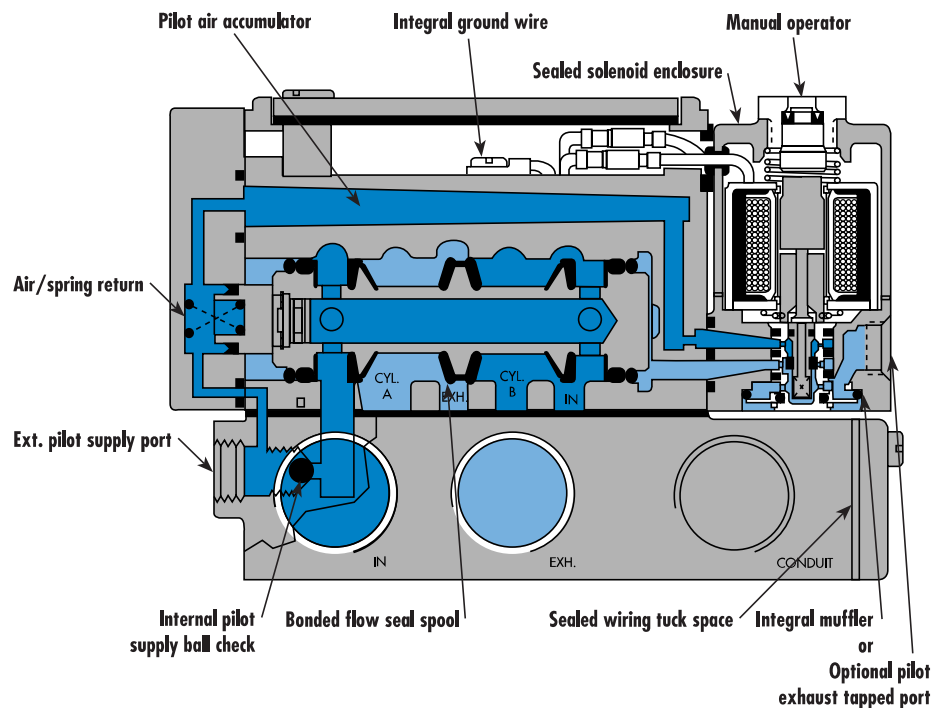
ISO 2

ISO 3

MAC 125A

MAC 250A

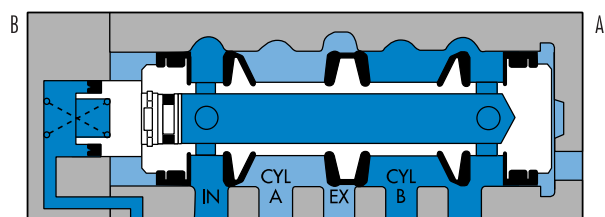
MAC 500A



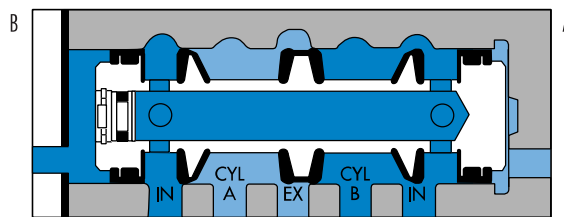
SERIES FEATURES

- The patented MACSOLENOID® with its non-burn out feature on AC service.
- A large checked accumulator for consistent shifting on single and double solenoid models.
- A plug-in design that provides for internal or external pilot with or without lights and all electrical and air plumbing in the base — the valve portion is the same.
- Non-lubricated or lubricated service.
- Optional low wattage DC solenoids down to 1 watt.
- Optional indicator lights, and various types of manual operators.
- Non plug-in or external plug-in models are available.

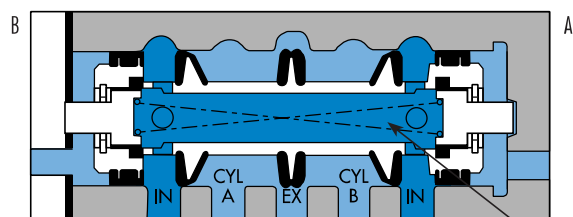
SPOOL CONFIGURATIONS



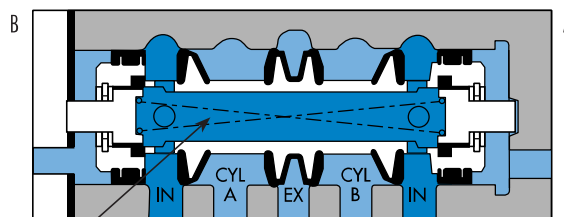
2 POS. SINGLE OPERATOR SPRING RETURN
B ACTUATED SHOWN



2 POS. DOUBLE OPERATOR
B ACTUATED SHOWN



3 POS. OPEN CENTER
CENTER POSITION SHOWN



3 POS. CLOSED CENTER
CENTER POSITION SHOWN

AIR/SPRING
CENTERING

VALVE CONFIGURATIONS AVAILABLE

The versatile 6300 Series provides high flow, extremely fast response, and long life in a compact package and is available in the following configurations:

- 2-Pos., single or double operators (solenoid or remote air).
- 3-Pos., double operator-Closed Center, Open Center or Pressure Center (solenoid or remote air).
- Single pressure.
- Dual pressure on manifolds with sandwich regulators.
- Individual base or add-a-unit manifold base.
- Internal pilot or for Vacuum to 25 PSI main valve pressures, external pilot.
- Manual and mechanical operators available.
- All models available with sandwich regulators (Except remote air pilot).

REMOTE AIR PILOT OPERATED VALVES

These remote air versions feature:

- A large checked accumulator for air/spring return on single remote air models.
- Non-lubricated or lubricated service.
- All piping connections, including the remote air pilot supply, in the base.

REMOTE AIR PILOT, PILOT OPERATED VALVES

These special air versions have the same features as the remote air pilot operated models, but additionally feature:

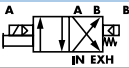
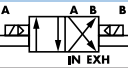


- A manual operator and indicator.
- Ability to use a pilot signal pressure different from the main valve pressure.
Pilot signal can be from 20 to 150 PSIG, regardless of main valve pressure.

Function	Port size	Flow [Max]	Individual mounting	Series
4/2 - 4/3	1/4" - 3/8" - 1/2"	3.0 C_v	sub-base non "plug-in"	

OPERATIONAL BENEFITS

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

HOW TO ORDER

Port size	Pilot air	4/2 Single operator	4/2 Double operator	4/3 Closed center	4/3 Open center
					
Valve less base		6312D-000-PM- XXYYZZ	6322D-000-PM- XXYYZZ	6332D-000-PM- XXYYZZ	6342D-000-PM- XXYYZZ
sub-base	Internal	6312D-131-PM- XXYYZZ	6322D-131-PM- XXYYZZ	6332D-131-PM- XXYYZZ	6342D-131-PM- XXYYZZ
1/4" NPTF	External	6312D-141-PM- XXYYZZ	6322D-141-PM- XXYYZZ	6332D-141-PM- XXYYZZ	6342D-141-PM- XXYYZZ
sub-base	Internal	6312D-231-PM- XXYYZZ	6322D-231-PM- XXYYZZ	6332D-231-PM- XXYYZZ	6342D-231-PM- XXYYZZ
3/8" NPTF	External	6312D-241-PM- XXYYZZ	6322D-241-PM- XXYYZZ	6332D-241-PM- XXYYZZ	6342D-241-PM- XXYYZZ
sub-base	Internal	6312D-331-PM- XXYYZZ	6322D-331-PM- XXYYZZ	6332D-331-PM- XXYYZZ	6342D-331-PM- XXYYZZ
1/2" NPTF	External	6312D-341-PM- XXYYZZ	6322D-341-PM- XXYYZZ	6332D-341-PM- XXYYZZ	6342D-341-PM- XXYYZZ

Note : Above codes shown are for side ports.

SOLENOID OPERATOR ►

XX Voltage		Y Manual operator	ZZ Electrical connection
11	120/60, 110/50	1 Non-locking	JB Rectangular connector
12	240/60, 220/50	2 Locking	JD Rectangular connector with light
22	24/60, 24/50		JA Square connector
59	24 VDC (2.5 W)		JC Square connector with light
87	24 VDC (17.1 W)		BA Flying leads (18")
61	24 VDC (8.5 W)		

* Other options available, see page 357.

OPTIONS

6312D-XXX-PM-**XXYYZZ**

- For piped pilot exhaust replace M by P.
- For bottom cylinder ports (excluding 1/2"), replace by 4.
- For dual pressure valves (see page 293 for use with sandwich regulators), replace by 5.

Note : 1. The valve less base is always the same for internal or external pilot. These options are effected in the base.
2. To order bases without the valve, choose the base from the above table, then add 6300D as a prefix. Example 6300D-131.



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ISO 1

ISO 2

ISO 3

MAC 125A

MAC 250A

MAC 500A

TECHNICAL DATA

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		
Temperature range :	0°F to 120°F (-18°C to 50°C)		
Flow (at 6 bar, ΔP=1bar) :	1/4" (2.0 C _v), 3/8" : (2.6 C _v), 1/2" (3.0 C _v)		
Coil :	Epoxy encapsulated - class A wires - Continuous duty.		
Voltage range :	-15% to +10% of nominal voltage		
Protection :	Consult factory		
Power :	~ Inrush : 14.8 VA Holding : 10.9 VA = 1 to 17.1 W		
Response times :	24 VDC (8.5 W)	Energize : 10 ms	De-energize : 11 ms
	120/60	Energize : 4-13 ms	De-energize : 10-17 ms

Spare parts :

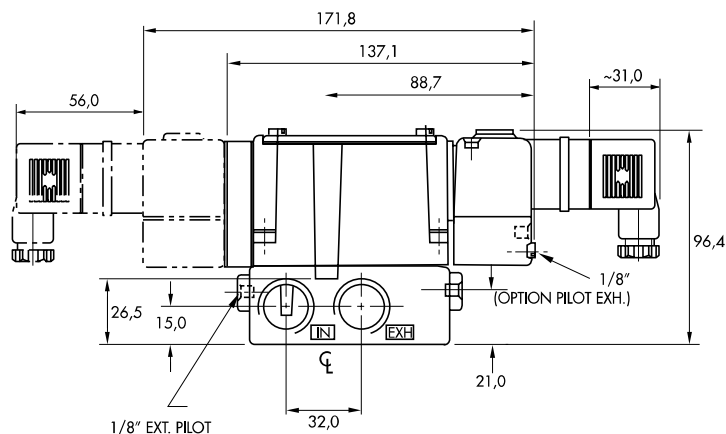
- Solenoid operator (power ≥ 4 W) : D1-XXAA, cover mounting screws 35206 and seal 16234.
- Pilot valve : PME-XXYZZ, including seal 16337. • Pressure seal between valve and base : 16298.
- Mounting screw valve to base (x4) : 35303.

Options :

- BSPP threads.

DIMENSIONS

Dimensions shown are metric (mm)



Function	Port size	Flow [Max]	Individual mounting	Series
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4/2 - 4/3

1/4" - 3/8" - 1/2"

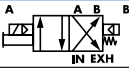
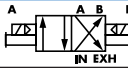


3.0 C_v

sub-base
"plug-in"

OPERATIONAL BENEFITS

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

HOW TO ORDER

Port size	Pilot air	4/2 Single operator	4/2 Double operator	4/3 Closed center	4/3 Open center
					
Valve less base		6311D-000-PM- XXY DA	6321D-000-PM- XXY DA	6331D-000-PM- XXY DA	6341D-000-PM- XXY DA
sub-base	Internal	6311D-111-PM- XXY DA	6321D-111-PM- XXY DA	6331D-111-PM- XXY DA	6341D-111-PM- XXY DA
1/4" NPTF	External	6311D-121-PM- XXY DA	6321D-121-PM- XXY DA	6331D-121-PM- XXY DA	6341D-121-PM- XXY DA
sub-base	Internal	6311D-211-PM- XXY DA	6321D-211-PM- XXY DA	6331D-211-PM- XXY DA	6341D-211-PM- XXY DA
3/8" NPTF	External	6311D-221-PM- XXY DA	6321D-221-PM- XXY DA	6331D-221-PM- XXY DA	6341D-221-PM- XXY DA
sub-base	Internal	6311D-311-PM- XXY DA	6321D-311-PM- XXY DA	6331D-311-PM- XXY DA	6341D-311-PM- XXY DA
1/2" NPTF	External	6311D-321-PM- XXY DA	6321D-321-PM- XXY DA	6331D-321-PM- XXY DA	6341D-321-PM- XXY DA

Note : Above codes shown are for side ports without lights.

SOLENOID OPERATOR ►

XX Y DA*

XX Voltage	Y Manual operator
11 120/60, 110/50	1 Non-locking
12 240/60, 220/50	2 Locking
22 24/60, 24/50	
59 24 VDC (2.5 W)	
87 24 VDC (17.1 W)	
61 24 VDC (8.5 W)	

* Other options available, see page 357.

OPTIONS

6311D-XXX-PM-**XXY**DA

- For piped pilot exhaust replace M by P.
- For bottom ports (excluding 1/2"), replace by 4 (no light), by 5 (sgl. light), by 6 (dbl. light).
- For side ports with lights on base, replace by 2 (sgl. light), by 3 (dbl. light).
- For lights on valve body, replace by 3.
- For dual pressure valves with lights on valve body (see page 293 for use with sandwich regulators), replace by 6.

Note : 1. The valve less base is always the same for internal or external pilot. These options are effected in the base.

2. To order bases without the valve, choose the base from the above table, then add 6300D as a prefix. Example 6300D-111.

TECHNICAL DATA

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		
Temperature range :	0°F to 120°F (-18°C to 50°C)		
Flow (at 6 bar, ΔP=1bar) :	1/4" (2.0 C _v), 3/8" : (2.6 C _v), 1/2" (3.0 C _v)		
Coil :	Epoxy encapsulated - class A wires - Continuous duty.		
Voltage range :	-15% to +10% of nominal voltage		
Protection :	Consult factory		
Power :	~ Inrush : 14.8 VA Holding : 10.9 VA = 1 to 17.1 W		
Response times :	24 VDC (8.5 W)	Energize : 10 ms	De-energize : 11 ms
	120/60	Energize : 4-13 ms	De-energize : 10-17 ms

Spare parts :

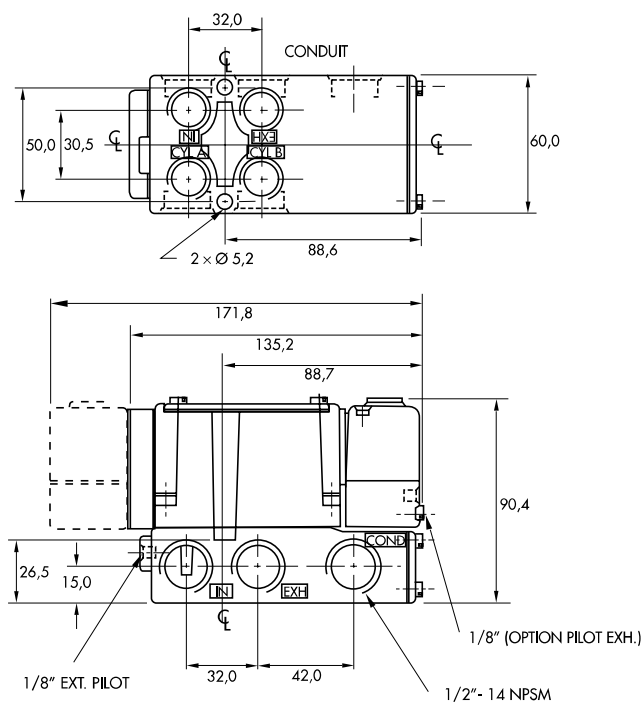
- Solenoid operator (power ≥ 4 W) : D1-XXBE, cover mounting screws 35206 and seal 16234.
- Pilot valve : PME-XXYDA-BE, including seal 16337. • Pressure seal between valve and base : 16298.
- Mounting screw valve to base (x4) : 35303.

Options :

- BSPP threads.

DIMENSIONS

Dimensions shown are metric (mm)

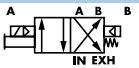
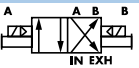
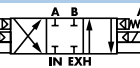
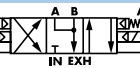
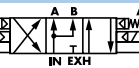


Function	Port size	Flow [Max]	Manifold mounting	Series
4/2 - 4/3	3/8" - 1/2"	3.0 C_v	sub-base non "plug-in"	

OPERATIONAL BENEFITS

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

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		6312D-000-PM- XXYZZ	6322D-000-PM- XXYZZ	6332D-000-PM- XXYZZ	6342D-000-PM- XXYZZ	6352D-000-PM- XXYZZ
sub-base	Internal	6312D-531-PM- XXYZZ	6322D-531-PM- XXYZZ	6332D-531-PM- XXYZZ	6342D-531-PM- XXYZZ	6352D-531-PM- XXYZZ
3/8" NPTF	External	6312D-541-PM- XXYZZ	6322D-541-PM- XXYZZ	6332D-541-PM- XXYZZ	6342D-541-PM- XXYZZ	6352D-541-PM- XXYZZ
sub-base	Internal	6312D-631-PM- XXYZZ	6322D-631-PM- XXYZZ	6332D-631-PM- XXYZZ	6342D-631-PM- XXYZZ	6352D-631-PM- XXYZZ
1/2" NPTF	External	6312D-641-PM- XXYZZ	6322D-641-PM- XXYZZ	6332D-641-PM- XXYZZ	6342D-641-PM- XXYZZ	6352D-641-PM- XXYZZ

Note : Above codes shown are for side cylinder ports.

SOLENOID OPERATOR ►

XX Y ZZ*		
XX Voltage	Y Manual operator	ZZ Electrical connection
11 120/60, 110/50	1 Non-locking	JB Rectangular connector
12 240/60, 220/50	2 Locking	JD Rectangular connector with light
22 24/60, 24/50		JA Square connector
59 24 VDC (2.5 W)		JC Square connector with light
87 24 VDC (17.1 W)		BA Flying leads (18")
61 24 VDC (8.5 W)		

Note : Photo shown with JC connector.

* Other options available, see page 357.

OPTIONS

6312D-XXX-PM-**XXYZZ**

- For piped pilot exhaust replace M by P.
- For bottom cylinder ports, replace by 4.
- For bottom and side cylinder ports, replace by 7.
- For dual pressure valves (see page 293 for use with sandwich regulators), replace by 5.

MODIFICATIONS - MOD 0210 Bottom inlet port in addition to side inlet port - TO ORDER : 6312D-531-PM-111JA MOD 0210

- Note : 1. The valve less base is always the same for internal or external pilot. These options are effected in the manifold.
 2. To order manifolds without the valve, choose the manifold from the above table, then add 6300D as a prefix. Example 6300D-631.
 3. When ordering an external pilot connection for manifold bases, a common external pilot port is standard. One connection only is required for all the valves in the manifold whether single or double solenoid.
 4. Manifolds for solenoid and remote air operated valves must be ganged separately.

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6300

6500

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1300

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ISO 1

ISO 2

ISO 3

MAC 125A

MAC 250A

MAC 500A

TECHNICAL DATA

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		
Temperature range :	0°F to 120°F (-18°C to 50°C)		
Flow (at 6 bar, ΔP=1bar) :	3/8" : (2.6 C _v), 1/2" (3.0 C _v)		
Coil :	Epoxy encapsulated - class A wires - Continuous duty.		
Voltage range :	-15% to +10% of nominal voltage		
Protection :	Consult factory		
Power :	~ Inrush : 14.8 VA Holding : 10.9 VA = 1 to 17.1 W		
Response times :	24 VDC (8.5 W)	Energize : 10 ms	De-energize : 11 ms
	120/60	Energize : 4-13 ms	De-energize : 10-17 ms

Spare parts :

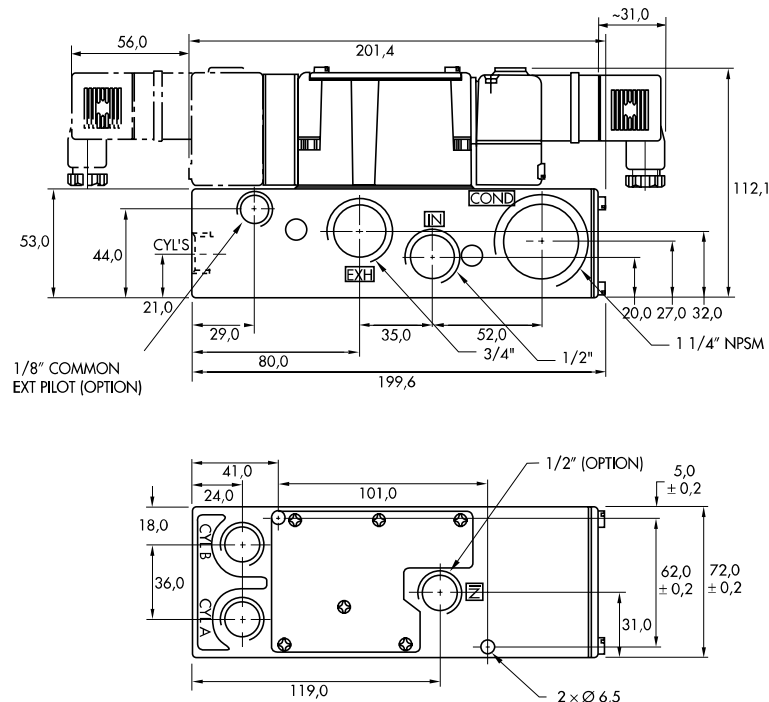
- Solenoid operator (power ≥ 4 W) : D1-XXAA, cover mounting screws 35206 and seal 16234.
- Pilot valve : PME-XXYZZ, including seal 16337. • Pressure seal between valve and base : 16396.
- Mounting screw valve to base (x4) : 35303. • Tie-rod (x2) : 19624. • Fastening kit : N-63002-01
- Inlet isolator : 32839. • Exhaust isolator : 28309. • Blank station cover plate : M-63014.

Options :

- BSPP threads.

DIMENSIONS

Dimensions shown are metric (mm)



Function	Port size	Flow [Max]	Manifold mounting	Series
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4/2 - 4/3

3/8" - 1/2"

Flow [Max]

3.0 C_v

Manifold mounting

sub-base
"plug-in"

Series

OPERATIONAL BENEFITS

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



35

100

200

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700

900

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6300

6500

6600

1300

800

ISO 1

ISO 2

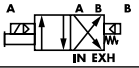
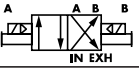
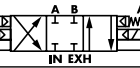
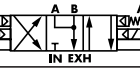
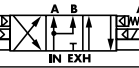
ISO 3

MAC 125A

MAC 250A

MAC 500A

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		6311D-000-PM- XXY DA	6321D-000-PM- XXY DA	6331D-000-PM- XXY DA	6341D-000-PM- XXY DA	6351D-000-PM- XXY DA
sub-base	Internal	6311D-511-PM- XXY DA	6321D-511-PM- XXY DA	6331D-511-PM- XXY DA	6341D-511-PM- XXY DA	6351D-511-PM- XXY DA
3/8" NPTF	External	6311D-521-PM- XXY DA	6321D-521-PM- XXY DA	6331D-521-PM- XXY DA	6341D-521-PM- XXY DA	6351D-521-PM- XXY DA
sub-base	Internal	6311D-611-PM- XXY DA	6321D-611-PM- XXY DA	6331D-611-PM- XXY DA	6341D-611-PM- XXY DA	6351D-611-PM- XXY DA
1/2" NPTF	External	6311D-621-PM- XXY DA	6321D-621-PM- XXY DA	6331D-621-PM- XXY DA	6341D-621-PM- XXY DA	6351D-621-PM- XXY DA

Note : Above codes shown are for side cylinder ports without lights.

SOLENOID OPERATOR ►

XX Y DA*

XX	Voltage	Y	Manual operator
11	120/60, 110/50	1	Non-locking
12	240/60, 220/50	2	Locking
22	24/60, 24/50		
59	24 VDC (2.5 W)		
87	24 VDC (17.1 W)		
61	24 VDC (8.5 W)		

* Other options available, see page 357.

OPTIONS

6311D-XXX-PM-**XXY**DA

- For piped pilot exhaust replace M by P.
- For bottom cylinder ports, replace by 4 (no light), by 5 (sgl. light), by 6 (dbl. light).
- For side cylinder ports with light, replace by 2 (sgl. light), by 3 (dbl. light).
- For bottom and side cylinder ports, replace by 7 (no light), by 8 (sgl. light), by 9 (dbl. light).
- For lights on valve body, replace by 3.
- For dual pressure valves with lights on valve body (see page 293 for use with sandwich regulators), replace by 6.

MODIFICATIONS - MOD 0210 Bottom inlet port in addition to side inlet port - TO ORDER : 6311D-511-PM-111DA MOD 0210

- Note :
1. The valve less base is always the same for internal or external pilot. These options are effected in the manifold.
 2. To order manifolds without the valve, choose the manifold from the above table, then add 6300D as a prefix. Example 6300D-511.
 3. When ordering an external pilot connection for manifold bases, a common external pilot port is standard. One connection only is required for all the valves in the manifold whether single or double solenoid.
 4. Manifolds for solenoid and remote air operated valves must be ganged separately.

TECHNICAL DATA

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		
Temperature range :	0°F to 120°F (-18°C to 50°C)		
Flow (at 6 bar, ΔP=1bar) :	3/8" : (2.6 C _v), 1/2" (3.0 C _v)		
Coil :	Epoxy encapsulated - class A wires - Continuous duty.		
Voltage range :	-15% to +10% of nominal voltage		
Protection :	Consult factory		
Power :	~ Inrush : 14.8 VA Holding : 10.9 VA = 1 to 17.1 W		
Response times :	24 VDC (8.5 W)	Energize : 10 ms	De-energize : 11 ms
	120/60	Energize : 4-13 ms	De-energize : 10-17 ms

Spare parts :

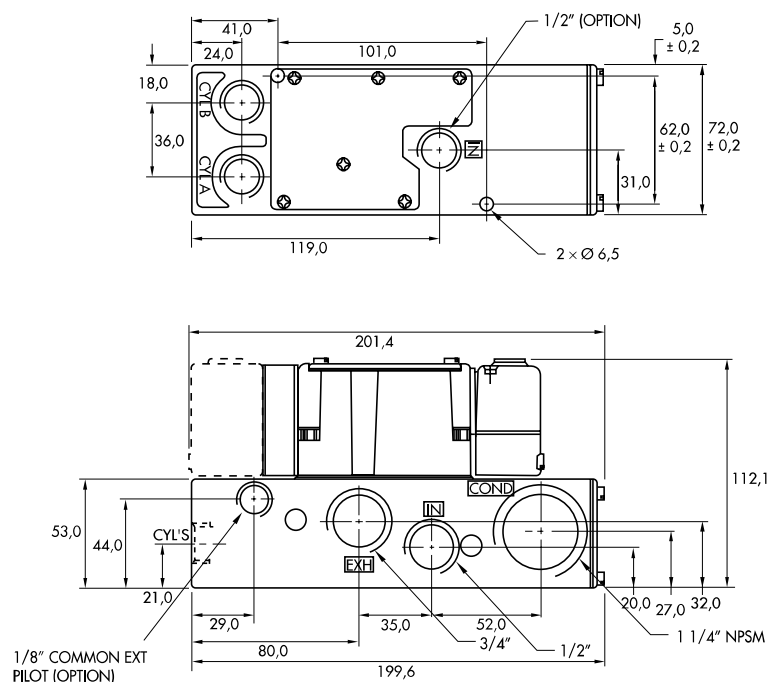
- Solenoid operator (power ≥ 4 W) : D1-XXBE, cover mounting screws 35206 and seal 16234.
- Pilot valve : PME-XXYDA-BE, including seal 16337. • Pressure seal between valve and base : 16396.
- Mounting screw valve to base (x4) : 35303. • Tie-rod (x2) : 19624. • Fastening kit : N-63002-01
- Inlet isolator : 32839. • Exhaust isolator : 28309. • Blank station cover plate : M-63014.

Options :

- BSPP threads.

DIMENSIONS

Dimensions shown are metric (mm)







0 p t i 0 n s

Codification table for voltages / Manual operator / Electrical connection / Wire length

VALVE CODE ➤

- XX Y ZZ (-VV)
1 2 3 4

OPTIONS AVAILABLE FOR	OPTIONS AVAILABLE FOR
<ul style="list-style-type: none"> - valves type 100 Series - pilot valves "CNOMO" 	<ul style="list-style-type: none"> - valves type 200 Series
<ul style="list-style-type: none"> - Pilot operated valves with pilots type 100 Series Series : 55 - 56 - 700 - 800 - 900 - 6300 - 6500 - 6600 - 1300 - ISO 1 - ISO 2 - ISO 3. - MAC 125 - MAC 250 - MAC 500 	<ul style="list-style-type: none"> - pilot operated valves with pilots type 200 Series Series : 200 - 57 - 58 - 59.
<ul style="list-style-type: none"> - Pilot operated valves with pilots "CNOMO" Series : ISO1 - ISO2 - ISO3 	



Used on valve series: 100, 55, 56, 700, 800, 900, 6300, 6500, 6600, 1300, MVA1C, MVA2B, MVA3B, MAC125, MAC250, MAC500.

Used on valve series: 200, 57, 58, 59.

1. VOLTAGE (100 Serie type coil)				
- XX Y ZZ	VOLTAGE			
11	120/60, 110/50			
12	240/60, 220/50			
13	100/60, 100/50			
15	200/60, 200 /50			
16	10/60			
20	6/60			
21	12/50, 12/60			
22	24/60, 24/50			
23	32/60, 32/50			
24	48/60, 42/50			
26*	380/50, 440/50, 440/60, 480/60			
29	220/60			
34	127/50, 120/50			
35	48/50			
36	16/60			
B1	24/50			
50	24 VDC (6 W)			
51	24 VDC (4 W)			
54	12 VDC (4 W)			
55	12 VDC (6 W)			
57	12 VDC (2.5 W)			
59	24 VDC (2.5 W)			
60	12 VDC (8.5 W)			
61	24 VDC (8.5 W)			
64	6 VDC (6 W)			
65	32 VDC (7 W)			
66	48 VDC (5.8 W)			
67	64 VDC (7.5 W)			
68	120 VDC (6.4 W)			
69*	220 VDC (8.7 W), 250 VDC (11.2 W)			
75	90 VDC (8.8 W)			
76*	100 VDC (6.9 W)			
84*	125 VDC (10.9 W)			
87*	24 VDC (17.1 W)			
88*	12 VDC (17.4 W)			
89*	36 VDC (18.8 W)			
90	28 VDC (8.2 W)			
91*	6 VDC (10.6 W)			
92	190 VDC (6.5 W)			
94	3 VDC (7 W)			
95	38 VDC (6.4 W)			
A1	24 VDC (1 W)			
A2	12 VDC (1 W)			
A3	9 VDC (1 W)			

MOD. DD01 : Protection diode (DC) - MAX. 8.5W

MOD. MOV1 : Protection varistor (AC) - MAX. 8.5W

* Voltages are CLSF only

1. VOLTAGE (200 Serie type coil)				
- XX Y ZZ	VOLTAGE			
11	120/60, 110/50, 24 VDC (6 W)			
12	240/60, 220/50			
13	100/60, 100/50			
14	200/60, 200/50			
20	6/60			
21	12/60			
22	24/60, 24/50			
23	32/60, 32/50			
24	48/60, 42/50			
25	240/50			
26	480/60, 440/50			
27	127/60			
28	415/50			
29	220/60			
30	380/50			
31	550/60, 550/50			
32	120/60, 110/50			
33	600/60			
34	127/50			
35	48/50			
50	24 VDC (6 W)			
51	24 VDC (4.5 W)			
52	24 VDC (2.5 W)			
53	24 VDC (1.0 W)			
55	12 VDC (6 W)			
57	12 VDC (2.5 W)			
58	48 VDC (2.5 W)			
60	12 VDC (9.5 W)			
61	24 VDC (8.5 W)			
64	6 VDC (8.5 W)			
65	32 VDC (10 W)			
66	48 VDC (11.5 W)			
67	64 VDC (10.5 W)			
68	120 VDC (12.3 W)			
69	250 VDC (9.2 W)			
71	8 VDC (8.2 W)			
72	24 VDC (12 W)			
73	198 VDC (10 W)			
74	72 VDC (11.3 W)			
75	90 VDC (11.3 W)			
76	100 VDC (9 W)			
77	220 VDC (10 W), 230 VDC (11.6 W)			
78*	24 VDC (24 W)			
80	55 VDC (10.6 W)			
82	170 VDC (11.1 W)			
83	15 VDC (8.1 W)			
84	125 VDC (10 W)			
86	36 VDC (11 W)			
93*	12 VDC (24 W)			

2. MANUAL OPERATOR (Common options for 100 & 200 Series type coils)

- XX Y ZZ	MANUAL OPERATOR		
0	No operator	5*	No Operator with Light
1	Non-locking recessed	6*	Non-Locking Recessed with Light
2	Locking recessed	7*	Locking Recessed with Light
3	Non-locking extended	8*	Non-Locking Extended with Light
4	Locking extended	9*	Locking Extended with Light

* Lights used with "AA" electrical connection

3. ELECTRICAL CONNECTION (100 Serie type coil)

- XX Y ZZ	ELECTRICAL CONNECTION
AA	Wiring box with 1/2" NPS conduit
BA	Flying leads
CA	1/2" NPS conduit
CC	1/2" NPT conduit
FA	Military type 2 PIN
GA	Military type 3 PIN
HA	AA with ground wire
JA*	Square connector
JB	Rectangular connector
JC*	Square connector with light
JD	Rectangular connector with light
JE	Square connector on top (ISO2, ISO3)
JF	Rectangular connector on top (ISO1, ISO2, ISO3)
JG	JE with light
JH	JF with light
JJ	Square connector, male only
JM	Rectangular connector, male only
MA	Electrical common conduit (100 Series-Manifold/900 Series)
MB	Electrical common conduit (100 Series-Stacking/700 Series)
NA	CA with ground wire
NC	CC with ground wire
RA	3/8" NPS conduit

* Not to be used with 100, 800 and 900 Series manifold mounting

3. ELECTRICAL CONNECTION (200 Serie type coil)

- XX Y ZZ	ELECTRICAL CONNECTION
AA	Wiring box with 1/2" NPS conduit
BA	Flying leads
CA	1/2" NPS conduit
CC	1/2" NPT conduit
EA	Explosion proof (200 Series)
EA	Explosion proof (57, 58 & 59 Series)
FA	Military type 2 PIN
GA	Military type 3 PIN
HA	AA with ground wire
JA*	Square connector
JC	Square connector with light
JJ	Square connector, male only
NA	CA with ground wire
NC	CC with ground wire



4. COIL WIRE LENGTH (Common options for 100 & 200 Serie type coils)

- XX Y ZZ (-VV)	WIRE LENGTH
AA	18"
AB	24"
AD	36"
AE	48"
AF	72"
AG	6"
AR	12"
AU	120"
BA	60"
BB	144"
Series 6000 : wire length, from the base	
MOD L024	24"
MOD L036	36"
MOD L048	48"
MOD L060	60"
MOD L072	72"
MOD L120	120"