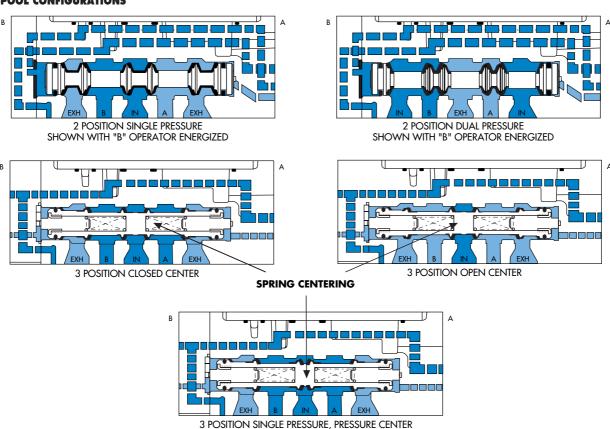




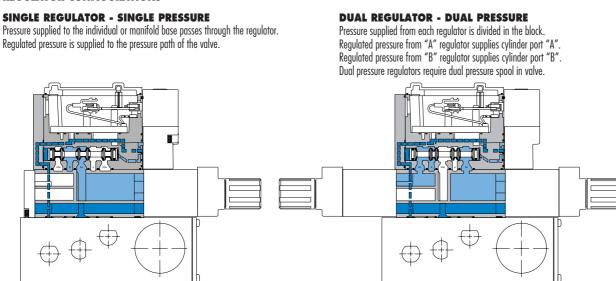




### **SPOOL CONFIGURATIONS**



### **REGULATOR CONFIGURATIONS**



### **MANIFOLD WITH REGULATOR - SINGLE PRESSURE**

**Note**: For both single and dual pressure, air supply to the pilot system is never regulated.



5eries <b>92</b>				
Function	Port size	Flow (Max)	Individual mounting	Series
5/2, 5/3	1/8" - 1/4" - 3/8"	1.2 C <sub>v</sub>	Sub-base non "plug-in"	
OPERATIONAL BENEFITS				33
<ol> <li>The 4-way pilot develor forces both ways.</li> </ol>	pps maximum shifting			34
Memory spring availa	ble.		61	
3. Balanced spool, immu	ne to variations of		400	36
pressure, also provide				
<ul><li>4. Short stroke with high</li><li>5. Bonded seal spool wit</li></ul>				- 00
shifting in a glass like				32

## HOW TO ORDER

## SINGLE PRESSURE MODELS

shifting in a glass-like finished bore. 6. Pilot with balanced poppet, high flow; short

and consistent response times.

Port size	Pilot air	5/2 Single operator	5/2 Double operator	5/3 Closed center	5/3 Open center	5/3 Pressure center	
		B A A A A A B B IN EA	B B A A A A A A A A A A A A A A A A A A	B A A A A A A A A A A A A A A A A A A A	B B A G A G A G A G A G A G A G A G A G	B A A A A A A A A A A A A A A A A A A A	
Valve less base		92B-ABA-000-DM-D <b>xxx-xxx</b>	92B-BBA-000-DM-D <b>xxx-xxx</b>	92B-EBA-000-DM-D <b>xxx-xxx</b>	92B-FBA-000-DM-D <b>xxx-xxx</b>	92B-GBA-000-DM-D <b>xxx-xxx</b>	
1/8" NPTF		92B-ABA-AAG-DM-D <b>xxx-xxx</b>	92B-BBA-AAG-DM-Dxxx-xxx	92B-EBA-AAG-DM-D <b>xxx-xxx</b>	92B-FBA-AAG-DM-D <b>xxx-xxx</b>	92B-GBA-AAG-DM-Dxxx-xxx	
1/4" NPTF	Internal	92B-ABA-BAG-DM-Dxxx-xxx	92B-BBA-BAG-DM-Dxxx-xxx	92B-EBA-BAG-DM-D <b>xxx-xxx</b>	92B-FBA-BAG-DM-Dxxx-xxx	92B-GBA-BAG-DM-D <b>xxx-xxx</b>	
3/8" NPTF		92B-ABA-CAG-DM-Dxxx-xxx	92B-BBA-CAG-DM-Dxxx-xxx	92B-EBA-CAG-DM-Dxxx-xxx	92B-FBA-CAG-DM-Dxxx-xxx	92B-GBA-CAG-DM-Dxxx-xxx	
1/8" NPTF		92B-ABA-AAH-DM-D <b>xxx-xxx</b>	92B-BBA-AAH-DM-Dxxx-xxx	92B-EBA-AAH-DM-D <b>xxx-xxx</b>	92B-FBA-AAH-DM-D <b>xxx-xxx</b>	92B-GBA-AAH-DM-D <b>xxx-xxx</b>	
1/4" NPTF	External	92B-ABA-BAH-DM-D <b>xxx-xxx</b>	92B-BBA-BAH-DM-Dxxx-xxx	92B-EBA-BAH-DM-D <b>xxx-xxx</b>	92B-FBA-BAH-DM-D <b>xxx-xxx</b>	92B-GBA-BAH-DM-Dxxx-xxx	
3/8" NPTF		92B-ABA-CAH-DM-D <b>xxx-xxx</b>	92B-BBA-CAH-DM-Dxxx-xxx	92B-EBA-CAH-DM-Dxxx-xxx	92B-FBA-CAH-DM-Dxxx-xxx	92B-GBA-CAH-DM-Dxxx-xxx	

# DUAL PRESSURE MODELS (REQUIRE SANDWICH REGULATOR - SEE "REGULATORS" SECTION)

	Pilot air	5/2 Single operator	5/2 Double operator
		ING EXH INA	B A A A A A A A A A A A A A A A A A A A
Valve less base		92B-CBA-000-DM-D <i>xxx-xxx</i>	92B-DBA-000-DM-D <b>xxx-xxx</b>
1/8" NPTF		92B-CBA-AAG-DM-D <b>xxx-xxx</b>	92B-DBA-AAG-DM-D <b>xxx-xxx</b>
1/4" NPTF	Internal	92B-CBA-BAG-DM-D <b>xxx-xxx</b>	92B-DBA-BAG-DM-D <b>xxx-xxx</b>
3/8" NPTF		92B-CBA-CAG-DM-D <b>xxx-xxx</b>	92B-DBA-CAG-DM-D <b>xxx-xxx</b>
1/8" NPTF		92B-CBA-AAH-DM-D <b>xxx-xxx</b>	92B-DBA-AAH-DM-D <i>xxx-xxx</i>
1/4" NPTF	External	92B-CBA-BAH-DM-D <b>xxx-xxx</b>	92B-DBA-BAH-DM-D <b>xxx-xxx</b>
3/8" NPTF		92B-CBA-CAH-DM-D <b>xxx-xxx</b>	92B-DBA-CAH-DM-D <i>xxx-xxx</i>

SOLENO

DID OPERATOR ➤	DM-D <u>xxx-xxx</u>

XX	Voltage	X	Wire length	X	Manual operator	XX	Electrical connection
JA	110 /50, 120/60 (2.9W)	Α	18" (Flying leads)	1	Non-locking recessed	BM	Flying leads
JB	220/50, 240/60 (2.9W)	В	24" (Flying leads)	2	Locking recessed	BN	Flying leads with diode
JC	24/60 (2.9W)	J	Connector			BP	Flying leads with M.O.V.
FB	24 VDC (1.8W)					BG	Flying leads with ground
DA	24 VDC (5.4W)					JB	Rectangular connector
DF	24 VDC (12.7W)					JD	Rectangular connector with light
* Other o	options available, see page 309.					KA	Square connector

Other options available for the 92 series valves, see page 155.

Above models are shown with side ports.

37

38 **52** 

67 69

44

46

42

47 **48P** 

48

400

92

93

**ISO 01** ISO 02 **ISO** 1

**ISO 2** 

**ISO 3** 







Fluid: Compressed air, vacuum, inert gases

Pressure range: Internal pilot: 20 to 120 PSI 3 position: 35 to 120 PSI

External pilot : vacuum to 120 PSI 3 position: 35 to 120 PSI

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

Filtration:

Temperature range:  $0^{\circ}$ F to  $120^{\circ}$ F (- $18^{\circ}$ C to  $+50^{\circ}$ C)

Flow:

1/8":  $(1.0 C_v) - 1/4$ ":  $(1.1 C_v) - 3/8$ ":  $(1.2 C_v)$ 

Coil: Class A continuous duty, #22 AWG x 18 lead wire

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

Consult factory Protection:

Power: ~Inrush 7.6 VA Holding: 4.8 VA

= 1.8 to 12.7 W

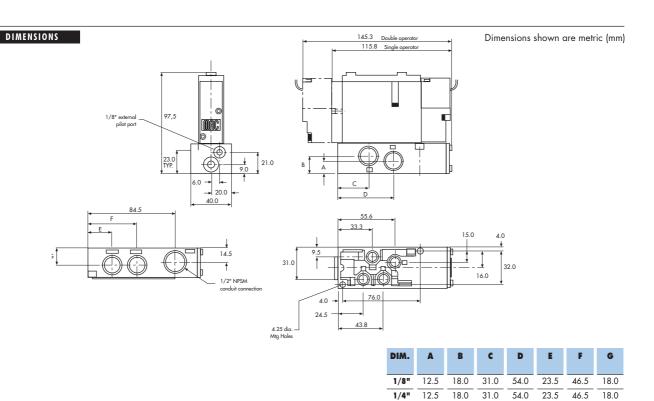
24V=/5.4W Response times: Energize: 8 ms  $De\text{-energize}: 7 \ ms$ 

120/60 Energize: 7-13 ms De-energize: 12-20 ms

• BSPP threads • Sandwich flow control: FC92B-CA Options:

• Pilot valve DM-Dxxx-xxx • Valve blanking plate: M-92002 Spare parts:

• Pressure seal between valve and base : 16543. • Mounting screws valve to base (X2) : 35050.



3/8"

12.0

17.0

30.0

23.5

47.5

17.0



Function	Port size	Flow (Max)	Individual mounting	Series
5/2, 5/3	1/8" - 1/4" - 3/8"	1.2 C <sub>v</sub>	Sub-base "plug-in"	

## OPERATIONAL BENEFITS

- The 4-way pilot develops maximum shifting forces both ways.
- 2. Memory spring available.
- 3. Balanced spool, immune to variations of pressure, also provides high flow.
- 4. Short stroke with high flow.
- 5. Bonded seal spool with minimum friction, shifting in a glass-like finished bore.
- 6. Pilot with balanced poppet, high flow; short and consistent response times.



33

34

36

32

37

38 52

67 69

44

46

42

47 48P

48

400

92

93

ISO 01 ISO 02 ISO 1

**ISO 2** 

**ISO 3** 

### HOW TO ORDER

### SINGLE PRESSURE MODELS

Port size	Pilot air	5/2 Single operator	5/2 Double operator	5/3 Closed center	5/3 Open center	5/3 Pressure center	
		B B A A A A A A A A A A A A A A A A A A	B B A A A A A A A A A A A A A A A A A A	B B A A A A A A A A A A A A A A A A A A	B B A A GIMM	B A A GOVERNMENT OF THE BEIN EA	
Valve less base		92B-AAA-000-DM-D <b>xx</b> P- <b>xxx</b>	92B-BAA-000-DM-D <b>xx</b> P- <b>xxx</b>	92B-EAA-000-DM-D <b>xx</b> P- <b>xxx</b>	92B-FAA-000-DM-D <b>xx</b> P- <b>xxx</b>	92B-GAA-000-DM-D <b>xx</b> P- <b>xxx</b>	
1/8"		92B-AAA-AAA-DM-DxxP-xxx	92B-BAA-AAA-DM-DxxP-xxx	92B-EAA-AAA-DM-D <b>xx</b> P- <b>xxx</b>	92B-FAA-AAA-DM-D <b>xx</b> P- <b>xxx</b>	92B-GAA-AAA-DM-DxxP-xxx	
1/4"	Internal	92B-AAA-BAA-DM-DxxP-xxx	92B-BAA-BAA-DM-DxxP-xxx	92B-EAA-BAA-DM-D <b>xx</b> P- <b>xxx</b>	92B-FAA-BAA-DM-D <b>xx</b> P- <b>xxx</b>	92B-GAA-BAA-DM-DxxP-xxx	
3/8"		92B-AAA-CAA-DM-DxxP-xxx	92B-BAA-CAA-DM-DxxP-xxx	92B-EAA-CAA-DM-DxxP-xxx	92B-FAA-CAA-DM-DxxP-xxx	92B-GAA-CAA-DM-DxxP-xxx	
1/8"		92B-AAA-AAD-DM-DxxP-xxx	92B-BAA-AAD-DM-DxxP-xxx	92B-EAA-AAD-DM-DxxP-xxx	92B-FAA-AAD-DM-DxxP-xxx	92B-GAA-AAD-DM-DxxP-xxx	
1/4"	External	92B-AAA-BAD-DM-DxxP-xxx	92B-BAA-BAD-DM-DxxP-xxx	92B-EAA-BAD-DM-DxxP-xxx	92B-FAA-BAD-DM-DxxP-xxx	92B-GAA-BAD-DM-DxxP-xxx	
3/8"		92B-AAA-CAD-DM-DxxP-xxx	92B-BAA-CAD-DM-DxxP-xxx	92B-EAA-CAD-DM-DxxP-xxx	92B-FAA-CAD-DM-DxxP-xxx	92B-GAA-CAD-DM-DxxP-xxx	

# DUAL PRESSURE MODELS (REQUIRE SANDWICH REGULATOR – SEE "REGULATORS" SECTION)

Port size	Pilot air	5/2 Single operator	5/2 Double operator
		IND EXH INA	B B A A A A
Valve less base		92B-CAA-000-DM-D <i>xx</i> P- <i>xxx</i>	92B-DAA-000-DM-D <b>xx</b> P- <b>xxx</b>
1/8"		92B-CAA-AAA-DM-D <b>xx</b> P- <b>xxx</b>	92B-DAA-AAA-DM-D <b>xx</b> P- <b>xxx</b>
1/4"	Internal	92B-CAA-BAA-DM-D <b>xx</b> P- <b>xxx</b>	92B-DAA-BAA-DM-D <i>xx</i> P- <i>xxx</i>
3/8"		92B-CAA-CAA-DM-D <b>xx</b> P- <b>xxx</b>	92B-DAA-CAA-DM-D <i>xx</i> P- <i>xxx</i>
1/8"		92B-CAA-AAD-DM-D <b>xx</b> P- <b>xxx</b>	92B-DAA-AAD-DM-D <i>xx</i> P- <i>xxx</i>
1/4"	External	92B-CAA-BAD-DM-D <b>xx</b> P- <b>xxx</b>	92B-DAA-BAD-DM-DxxP-xxx
3/8"		92B-CAA-CAD-DM-DxxP-xxx	92B-DAA-CAD-DM-DxxP-xxx

# SOLENOID OPERATOR ➤

XX	Voltage	X	Manual operator	XX	Electrical connection
JA	110 /50, 120/60 (2.9W)	1	Non-locking recessed	DM	Plug-in
JB	220/50, 240/60 (2.9W)	2	Locking recessed	DN	Plug-in with diode
JC	24/60 (2.9W)		-	DP	Plug-in with M.O.V.
FB	24 VDC (1.8W)			DG	Plug-in with ground
DA	24 VDC (5.4W)			DJ	Plug-in with M.O.V. & ground
DF	24 VDC (12.7W)			DH	Plug-in with diode & ground

DM-D XX P-XXX

Above models are shown with side ports.

<sup>\*</sup> Other options available, see page 309.
Note: Ground required for 30 Volts or higher.
Other options available for the 92 series valves, see page 156.







Fluid: Compressed air, vacuum, inert gases

Pressure range: Internal pilot: 20 to 120 PSI 3 position: 35 to 120 PSI

External pilot : vacuum to 120 PSI 3 position : 35 to 120 PSI

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

Filtration: 40

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

0 1 10 120 1 ( 10 C 10 100 C)

Flow: 1/8":  $(1.0 \text{ C}_{\text{v}}) - 1/4$ ":  $(1.1 \text{ C}_{\text{v}}) - 3/8$ ":  $(1.2 \text{ C}_{\text{v}})$ 

Class A continuous duty, #22 AWG x 18 lead wire

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

Protection: Consult factory

Power: ~Inrush 7.6 VA Holding: 4.8 VA

= 1.8 to 12.7 W

**Response times :** 24V=/5.4W Energize : 8 ms De-energize : 7 ms

120/60 Energize : 7-13 ms De-energize : 12-20 ms

Options: • BSPP threads • Sandwich flow control: FC92B-AA (sgl. operator), FC92B-BA (dbl. operator)

Spare parts : • Pilot valve DM-DxxP-xxx • Valve blanking plate: M-92002

• Pressure seal between valve and base : 16543. • Mounting screws valve to base (X2) : 35050.

## DIMENSIONS

Dimensions shown are metric (mm) 145.3 Double opera 115.3 Single opera 33.3 24.5 43.8 4.25 dia. Mtg Holes DIM. G 1/8" 12.5 18.0 31.0 54.0 23.5 46.5 18.0 1/4" 12.5 18.0 31.0 54.0 23.5 46.5 18.0 3/8" 12.0 17.0 30.0 54.0 23.5 17.0



Function		Port size	Flow (Max	(]	Manifold mounting	Series
5/2, 5/3		1/4" - 3/8"	1.2 C <sub>v</sub>		Sub-base non "plug-in"	
OPERATIONAL BEN	IEFITS					33
1. The 4-way pilo		aximum shifting				34
forces both wa 2. Memory spring 3. Balanced spoo pressure, also	g available. ol, immune to provides high					36
<ul><li>4. Short stroke wi</li><li>5. Bonded seal sp</li><li>shifting in a glo</li></ul>	oool with mini ass-like finishe	d bore.				32
<ol><li>Pilot with balar and consistent</li></ol>					100	37
<ul><li>7. Wiping effect</li><li>8. Long service life</li></ul>		king.			. 9 4	38
						52
HOW TO ORD	ER					67
SINGLE PRESSI	URE MODE	LS				69
Port size	Pilot air	5/2 Single operator	5/2 Double operator	5/3 Closed center	5/3 Open center	5/3 Pressure center
		B A A A A A A A A A A A A A A A A A A A	B B A A A A A A A A A A A A A A A A A A	B B A A BINN D T T T T T T T T T T T T T T T T T T	B B A A A A A A A A A A A A A A A A A A	B A STANDARD 46
Valve less base		92B-ABA-000-DM-D <b>xxx-xxx</b>	92B-BBA-000-DM-D <b>xxx-xx</b>		92B-FBA-000-DM-D <b>xxx-xxx</b>	92B-GBA-000-DM-DXXX-XXX
1/4" NPTF 3/8" NPTF	Internal	92B-ABA-BJG-DM-Dxxx-xxx 92B-ABA-CJG-DM-Dxxx-xxx	92B-BBA-BJG-DM-Dxxx-xx 92B-BBA-CJG-DM-Dxxx-xx		92B-FBA-BJG-DM-Dxxx-xxx 92B-FBA-CJG-DM-Dxxx-xxx	92B-GBA-BJG-DM-Dxxx-xxx 92B-GBA-CJG-DM-Dxxx-xxx
	E MODEIS			ee "regulators" sec		47
Port size		Pilot air	H REGULATOR = 3	5/2		5/2 48P
			S	ingle operator		operator
				B A A D INA	B B INB E	48 (H) NA
Valve less b				CBA-000-DM-Dxxx-xxx		O-DM-Dxxx-xxx
1/4" NPT 3/8" NPT		Internal		CBA-BJG-DM-D <b>xxx-xxx</b> CBA-CJG-DM-D <b>xxx-xxx</b>		G-DM-DXXX-XXX
SOLENOID OP			DM-D XX			shown with side ports.
				「		93
XX Volte	_		e length	X Manual oper		lectrical connection ISO 01
	50, 120/60 (2. 60, 240/60 (2.9	<u> </u>	lying leads) ector	Non-locking recessed Locking recessed		quare connector with light
	(2.9W) C (1.8W)					ect. connector with light
<b>DA</b> 24 VD	C (5.4W)				<b>BA</b> FI	ying leads
* Other options as	vailable, see po					150 2
End plate kit require	•	/8"): M-92004-01-01 ( M-92004-02-01 ( e <b>92</b> series valves, see pa	External pilot)			ISO 3
oniei opiions avi	andbie für M	. A series valves, see pa	gc 133.			







Fluid: Compressed air, vacuum, inert gases

Pressure range: Internal pilot: 20 to 120 PSI 3 position: 35 to 120 PSI

External pilot : vacuum to 120 PSI 3 position : 35 to 120 PSI

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

Filtration: 40 µ

**Temperature range :**  $0^{\circ}F$  to  $120^{\circ}F$  (- $18^{\circ}C$  to  $+50^{\circ}C$ )

Flow: 1/4":  $(1.1 C_v) - 3/8$ ":  $(1.2 C_v)$ 

Coil: Class A continuous duty, #22 AWG x 18 leads

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

Protection: Consult factory

Power: ~Inrush 7.6 VA Holding: 4.8 VA

= 1.8 to 12.7 W

**Response times :** 24V=/5.4W Energize : 8 ms De-energize : 7 ms

120/60 Energize: 7-13 ms De-energize: 12-20 ms

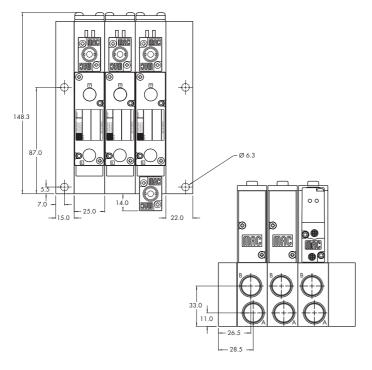
Options: • BSPP threads • Sandwich flow controls: FC92B-CA

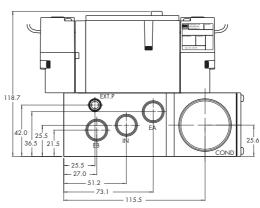
Spare parts : • Pilot valve: DM-Dxxx-xxx • Valve blanking plate: M-92002 • Pressure seal, valve to base 16543

• Inlet/Exhaust isolator disc: N-92018.

# DIMENSIONS

Dimensions shown are metric (mm)







unction		Port size	Flow (Max)		Manifold mounting	Ser	ies
5/2, 5/3		1/4" - 3/8"	1.2 C <sub>v</sub>		Sub-base "plug-in"		
OPERATIONAL BEN	IEFITS					3	3
I. The 4-way pilo forces both wa		aximum shifting			9	3	4
<ol> <li>Memory spring</li> <li>Balanced spoo pressure, also</li> </ol>	g available. I, immune to provides high					3	6
<ol> <li>Short stroke wi</li> <li>Bonded seal sp shifting in a glo</li> </ol>	oool with mini ass-like finishe	ed bore.				3	2
<ol> <li>Pilot with balar and consistent</li> </ol>						3	7
7. Wiping effect of B. Long service life	eliminates stic				53	3	8
. Long service in	е.				1	5	2
HOW TO ORD	ER					6	7
SINGLE PRESSI	JRE MODE	LS				6	9
Port size	Pilot air	5/2 Single operator	5/2 Double operator	5/3 Closed center	5/3 Open center	5/3 Pressure center	4
		B B A A A A A A A A A A A A A A A A A A	B B A A A A A A A A A A A A A A A A A A	B B A A A A A A A A A A A A A A A A A A	B A A A A A A A A A A A A A A A A A A A	B A A A A A A A A A A A A A A A A A A A	6
/alve less base		92B-AAA-000-DM-D <b>xx</b> P- <b>xxx</b>	92B-BAA-000-DM-D <b>xx</b> P- <b>xxx</b>	92B-EAA-000-DM-D <b>xx</b> P- <b>xxx</b>	92B-FAA-000-DM-D <b>xx</b> P- <b>xxx</b>	92B-GAA-000-DM-D <b>xx</b> P- <b>xxx</b>	2
1/4" NPTF 3/8" NPTF	Internal	92B-AAA-BJA-DM-DxxP-xxx 92B-AAA-CJA-DM-DxxP-xxx	92B-BAA-BJA-DM-DxxP-xxx 92B-BAA-CJA-DM-DxxP-xxx	92B-EAA-BJA-DM-DxxP-xxx 92B-EAA-CJA-DM-DxxP-xxx	92B-FAA-BJA-DM-DxxP-xxx 92B-FAA-CJA-DM-DxxP-xxx	92B-GAA-BJA-DM-DxxP-xxx 92B-GAA-CJA-DM-DxxP-xxx	
						4	7
Port size		(REQUIRE SANDWIC	H REGULATOR – SEE	"REGULATORS" SEC		5/2	8P
F011 312C		Filoruii	Sing	le operator		operator	
			B D	B A A D A D A D A D A D A D A D A D A D	B B INB E		8
Valve less b				A-000-DM-D <b>xx</b> P- <b>xxx</b>		O-DM-DxxP-xxx	00
1/4" NPT		Internal		A-BJA-DM-D <b>xx</b> P- <b>xxx</b>		A-DIVI-DAAI -AAA	
3/8" NPT			DM-D <u>XX</u> P-	A-CJA-DM-DxxP-xxx  Above	= models are shown with	A-DM-DxxP-xxx side ports and no lights.	2
				Ţ		9	3
XX Volt	age		X Manual opera	itor	XX Electrical co	nnection	
	50, 120/60 (2. 60, 240/60 (2.		<ul><li>Non-locking recessed</li><li>Locking recessed</li></ul>	ed	DM Plug-in DN Plug-in with diod		50 0
JC 24/60	(2.9W)				DP Plug-in with M.O	.V.	50 0
	C (1.8W) C (5.4W)			_	DG Plug-in with grou DJ Plug-in with M.O		50 1
	C (12.7W)			_	DH Plug-in with diod		50 2
DF 24 VD	0 (12.7 11)					A DESCRIPTION OF THE PROPERTY	
Other options as Note: Ground requ	vailable, see p					19	50 3







Power:

Fluid: Compressed air, vacuum, inert gases

Pressure range: Internal pilot: 20 to 120 PSI 3 position: 35 to 120 PSI

External pilot : vacuum to 120 PSI 3 position: 35 to 120 PSI

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

Filtration:

Temperature range:  $0^{\circ}\text{F}$  to  $120^{\circ}\text{F}$  (-18°C to +50°C)

Flow: 1/4":  $(1.1 C_v) - 3/8$ ":  $(1.2 C_v)$ 

Coil: Class A continuous duty, #22 AWG x 12 base leads

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

Consult factory Protection:

> ~Inrush 7.6 VA Holding: 4.8 VA

> > = 1.8 to 12.7 W

Response times: 24V=/5.4W Energize: 8 ms De-energize: 7 ms

120/60 Energize: 7-13 ms De-energize: 12-20 ms

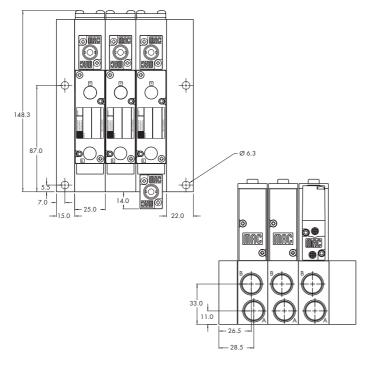
Options: • BSPP threads • Sandwich flow controls: FC92B-AA (sgl. operator), FC92B-BA (dbl. operator)

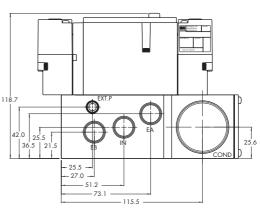
Spare parts: • Pilot valve: DM-DxxP-xxx • Valve blanking plate: M-92002 • Pressure seal, valve to base: 16543

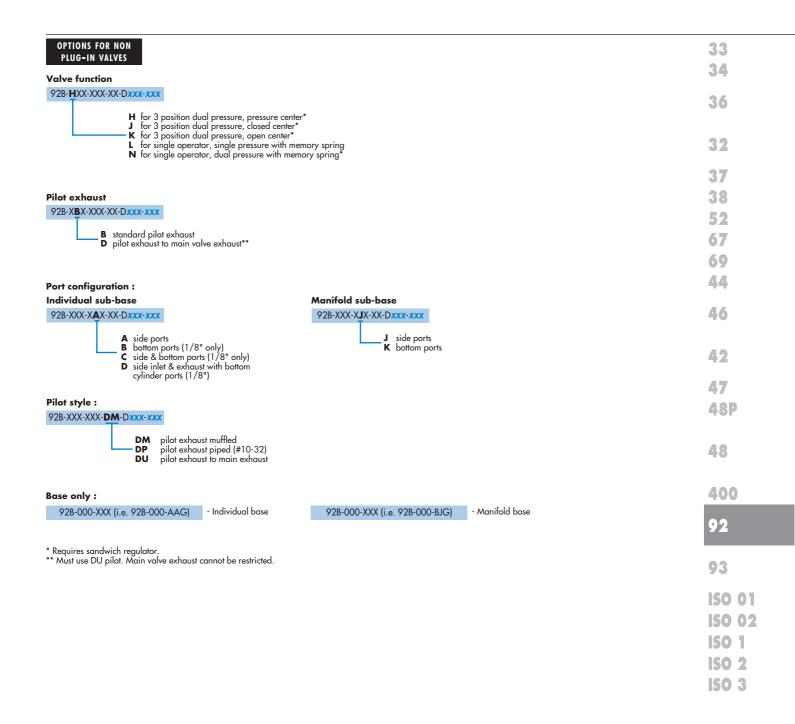
• Mounting screws valve to base (x2): 35050 • Inlet/Exhaust isolator disc: N-92018.

## DIMENSIONS

Dimensions shown are metric (mm)

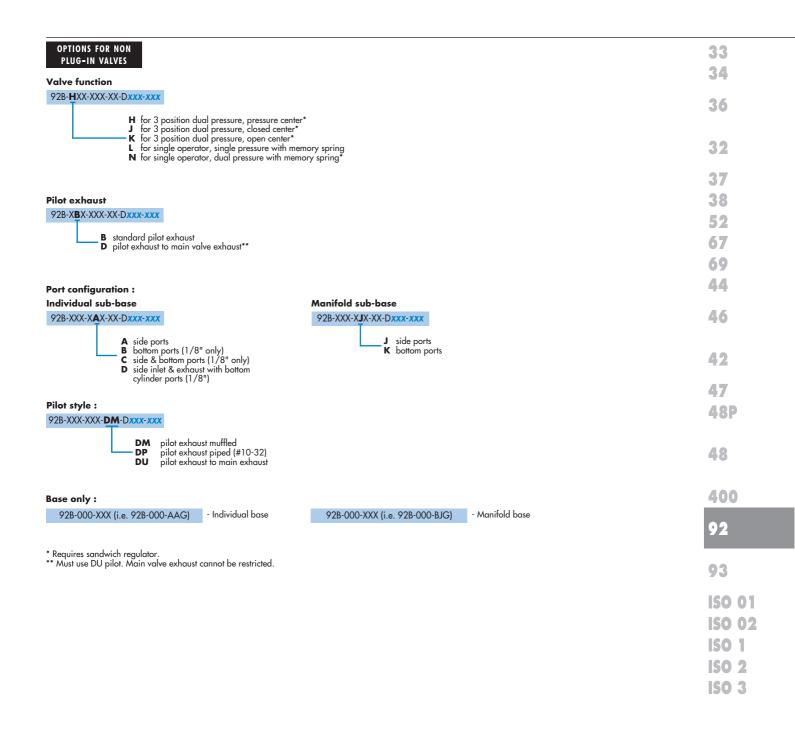






# OPTIONS FOR PLUG-IN VALVES Valve function 92B-HXX-XXX-XX-DxxP-xxx H for 3 position dual pressure, pressure center\* J for 3 position dual pressure, closed center\* K for 3 position dual pressure, open center\* L for single operator, single pressure with memory spring N for single operator, dual pressure with memory spring\* Pilot exhaust 92B-XAX-XXX-XX-DxxP-xxx A standard pilot exhaust C pilot exhaust to main valve exhaust\*\* **Body** electrical 92B-XXA-XXX-XX-DxxP-xxx A no light B light(s) F suppression and blocking diode with light(s) H M.O.V. with light(s) Port configuration: Individual sub-base Manifold sub-base 92B-XXX-X**J**X-XX-D**xx**P-**xxx** 92B-XXX-XAX-XX-DxxP-xxx A side ports B bottom ports (1/8" only) C side & bottom ports (1/8" only) D side inlet & exhaust with bottom cylinder ports (1/8") J side ports K bottom ports Individual & Manifold sub-base Int. pilot Individual sub-base Ext. pilot 92B-XXX-XXA-XX-DxxP-xxx 92B-XXX-XX**D**-XX-D**xx**P-**xxx** A internal pilot no light B internal pilot single light C internal pilot double light D external pilot no light E external pilot single light E external pilot double light Pilot style: 92B-XXX-XXX-DM-DxxP-xxx pilot exhaust muffled pilot exhaust piped (#10-32) pilot exhaust to main exhaust Lead Wire Lengths: (manifold sub-base only) 92B-XXX-XXX-DM-DxxP-xxx P 12" leads 1 18" leads 2 24" leads 3 36" leads 4 48" leads 5 72" leads Base only: 92B-000-XXX (i.e. 92B-000-AAA) - Individual base 92B-000-XXX (i.e. 92B-000-BJA) - Manifold base (Note: bases are wired for double solenoid valves)

\* Requires sandwich regulator.
\*\* Must use DU pilot. Main valve exhaust cannot be restricted.



# OPTIONS FOR PLUG-IN VALVES Valve function 92B-HXX-XXX-XX-DxxP-xxx H for 3 position dual pressure, pressure center\* J for 3 position dual pressure, closed center\* K for 3 position dual pressure, open center\* L for single operator, single pressure with memory spring N for single operator, dual pressure with memory spring\* Pilot exhaust 92B-XAX-XXX-XX-DxxP-xxx A standard pilot exhaust C pilot exhaust to main valve exhaust\*\* **Body** electrical 92B-XXA-XXX-XX-DxxP-xxx A no light B light(s) F suppression and blocking diode with light(s) H M.O.V. with light(s) Port configuration: Individual sub-base Manifold sub-base 92B-XXX-X**J**X-XX-D**xx**P-**xxx** 92B-XXX-XAX-XX-DxxP-xxx A side ports B bottom ports (1/8" only) C side & bottom ports (1/8" only) D side inlet & exhaust with bottom cylinder ports (1/8") J side ports K bottom ports Individual & Manifold sub-base Int. pilot Individual sub-base Ext. pilot 92B-XXX-XXA-XX-DxxP-xxx 92B-XXX-XX**D**-XX-D**xx**P-**xxx** A internal pilot no light B internal pilot single light C internal pilot double light D external pilot no light E external pilot single light E external pilot double light Pilot style: 92B-XXX-XXX-DM-DxxP-xxx pilot exhaust muffled pilot exhaust piped (#10-32) pilot exhaust to main exhaust Lead Wire Lengths: (manifold sub-base only) 92B-XXX-XXX-DM-DxxP-xxx P 12" leads 1 18" leads 2 24" leads 3 36" leads 4 48" leads 5 72" leads Base only: 92B-000-XXX (i.e. 92B-000-AAA) - Individual base 92B-000-XXX (i.e. 92B-000-BJA) - Manifold base (Note: bases are wired for double solenoid valves)

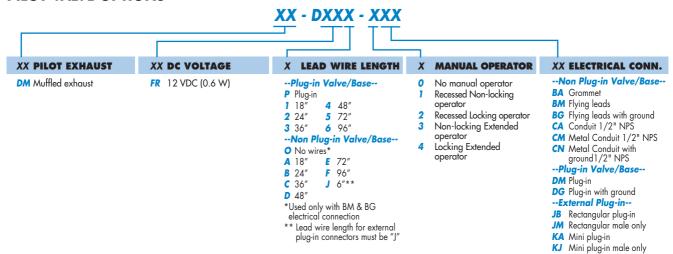
\* Requires sandwich regulator.
\*\* Must use DU pilot. Main valve exhaust cannot be restricted.



#### HOW TO ORDER

#### BODY BASE PILOT **OPTIONS OPTIONS** VALVE 92B - XXX - XXX - (XX - DXXX - XXX) SEE BELOW **VALVE FUNCTION BODY ELECTRICAL OPTIONS PORT SIZE - THREAD TYPE** INT. OR EXT. PILOT 0 Base only Base only Basic Valve Basic Valve Single Operator-Single Pressure No ligth in top 1/8" NPTF **Plug-in Internal Pilot Models** Double Operator-Single Pressure В With ligth В 1/4" NPTF No light in base Single Operator-Dual Pressure 3/8" NPTF With single light in base D Double Operator - Dual Pressure D 1/8" BSPPL With double light in base 3 Position Closed Center E 1/4" BSPPL **Plug-in External Pilot Models** 3 Position Open Center 3/8" BSPPL D No light in base 1/8" BSPTR 3 Position Single Pressure Pressure Center G G With single light in base Н 1/4" BSPTR With double light in base **Spool with Memory Spring** 3/8" BSPTR Non plug-in Internal Pilot Single Operator-Single Pressure Single Operator-Dual Pressure External Pilot If lights are in top body cover, use option A or D $\,$ **BODY TYPE & EXHAUST OPTIONS** INDIV. BASE CONFIG. Base only 0 Basic Valve Plug-in Standard Exhaust Side Ports Non Plug-in with Standard Exhaust Bottom Ports (1/8" only) В Side & Bottom Ports (1/8" only) C \* Use with body electrical option A only Side in & exhaust Bottom cylinders (1/8" only)

## **PILOT VALVE OPTIONS**



## **HOW TO ORDER 92 SERIES FLOW CONTROL MODULE\***

FC 92C-AA	Plug-in flow control assembly single solenoid
FC 92C-BA	Plug-in flow control assembly double solenoid
FC 92C-CA	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., FC92C-AA-9. The flow control model number should follow the valve model number on which it is to be installed.

NOTE: If a flow control assembly is used with the dual pressure regulator option, only the flow control on the "B" end is functional. (Controls both cylinder ports.)
NOTE: Consult the general catalog for regulator and circuit bar ordering information.



# Codification table for voltages / Manual operator / Electrical connection

VALVE CODE > -DM- D  $\frac{XX}{1}$   $\frac{X-X}{2}$   $\frac{XX}{3}$ 

# OPTIONS AVAILABLE FOR

- Pilot operated valves 52, 67, 92, 93, 400, ISO1, ISO2, ISO3 Series



	1. VOLTAGE		4. ELECTRICAL CONNECTION	
D-XX X-X XX	VOLTAGE	D-XX X-X XX	ELECTRICAL CONNECTION	
DA	24 VDC (5.4W)	BA*	Flying leads (grommet)	
DB	12 VDC (5.4W)	BK*	BA with protection diode	
DC	12 VDC (7.5W)	BL*	BA with protection varistor	
DD	24 VDC (7.3W)	BM**	Flying leads (solenoid plug-in)	
DE	12 VDC (12.7W)	BN**	BM with protection diode	
DF	24 VDC (12.7W)	BP**	BM with protection varistor	
DK	110 VDC (4.7W)	BG**	BM with ground	
DJ	28 VDC (5.2W)	BH**	BM with protection diode & ground	
DL	64 VDC (6.0W)	BJ**	BM with protection varistor & ground	
DM	36 VDC (5.3W)	CA*	1/2" NPS conduit with flying leads	
DN	6 VDC (6.0W)	CM*	1/2" NPS metal conduit with flying leads	
DR	90 VDC (6.6W)	CN*	1/2" NPS metal conduit with flying leads & ground	
DS	110 VDC (7.3W)	JB	Rectangular connector	
DT	75 VDC (5.6W)	JD	JB with light	
DP	48 VDC (5.8W)	JM	Rectangular connector (male only)	
FA	12 VDC (1.8W)	KA	Mini square connector	
FB	24 VDC (1.8W)	КВ	KA with protection diode	
FE	12 VDC (2.4W)	KC	KA with protection varistor	
FF	24 VDC (2.4W)	KD	KA with light	
JA	120/60, 110/50 (2.9W)	KE	KA with light and protection diode	
JB	240/60, 220/50 (2.9W)	KF	KA with light and protection varistor	
JC	24/60, 24/50 (3.7W)	KG	KA with light & diode	
JD	100/60, 100/50, 110/60 (3.9W)	KJ	Mini square connector (male only)	
JE	220/60 (3.4W)	KK	KJ with protection diode (male only)	
JF	240/50 (2.8W)	KL	KJ with protection varistor (male only)	
JG	200/60, 200/50 (3.9W)	TA	Dual tabs with receptacles	
		TB	TA with protection diode	
	2. WIRE LENGTH	TD	TA with light	
		TE	TA with light and protection diode	
D-XX X-X XX	WIRE LENGTH	TJ	Dual tabs (male only)	
0	No wires	TK	TJ with protection diode	
A	18"	TM	TJ with light	
В	24"	TN	TJ with light and protection diode	
С	36"	* From Lead wire length options choose A through F		
D	48"		** From Lead wire length options choose 0 through F	
E	72"	Note: When coil is above 30 volts, a ground wire is required. Applies to option		
F	96"	with flying leads.		

# 3. MANUAL OPERATOR

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