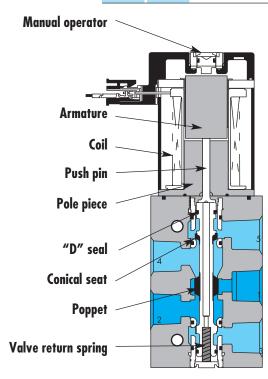


Individual mounting

|--|--|

Manifold mounting



SERIES FEATURES

- Short stroke solenoid produces high energization shifting force.
- High force return spring due to high force solenoid maximizes both energization and de-energization shifting forces.
- Built-in wear compensation valve stroke is shorter than solenoid stroke.
- Four (4) bonded balanced poppets on a one-piece valve stem.
- End poppets seal first on conical seats and cushion inlet poppet, eliminating cutting.
- \bullet Exhaust seals are not under inlet pressure thus reducing friction.
- Short stroking balanced poppet allows for direct solenoid operation with high shifting forces, minimized friction, fast response and high flow in a small package.



Function Port size Floш (Max) Individual Mounting 5/2 G1/8" - G1/4" Inline 500 NI/min

OPERATIONAL BENEFITS

- Short stroke solenoid produces high energization shifting force.
- 2. High force return spring due to high force solenoid maximizes both energization and de-energization shifting forces.
- 3. Built-in wear compensation valve stroke is shorter than solenoid stroke.
- 4. Four bonded balanced poppets on a onepiece valve stem.
- 5. End poppets seal first on conical seats and cushion inlet poppet, eliminating cutting.

 6. Exhaust seals are not under inlet pressure thus
- $reducing\ friction.$
- inline models.
- 8. Short stroking balanced poppet alows for direct solenoid operation with high shifting forces, minimized friction, fast response and high flow in a small package.



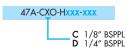
HOW TO ORDER

Port size	Without flow controls	With flow controls
	12 4 14	12 4 14
G1/8"	47A-AC0-H xxx-xxx	47A-BC0-H xxx-xxx
G1/4"	47A-AD0-H xxx-xxx	47A-BD0-H xxx-xxx

SOLEN	OID OPERATOR >	H <u>xxx</u> - <u>xxx</u> ·					
				<u> </u>			
XX	Voltage	X	Lead Wire length	X	Manual operator	XX	Electrical connection
DA	24V=/5,2W	A	45 cm	1	Non-locking	MA	Plug-in wire assembly
DB	24V=/2,4W	В	60 cm	2	Locking	MC	Plug-in wire assembly with
DC	24V=/1,8W	C	90 cm				light
DD	24V=/1,0W			-		BA	Flying leads
AA	120V~/6,7W					ВС	Flying leads with light
	·	_				MT	Plug-in wire assembly with rectifier & light

* Other options available, see page **options**. Note: AC voltage requires connector with rectifier.

Options : Mani Mount Option (w/o flow controls)







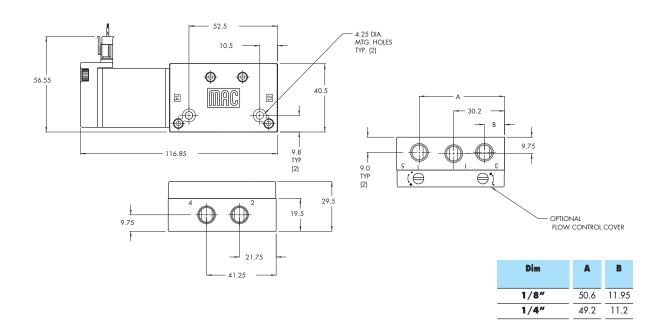


Fluid : Compressed air, vacuum, inert gases Pressure range : Vacuum to 8 bar Lubrication: Not required, if used select a medium aniline point lubricant (between 80°C and 100°C) Filtration: 40 μ -18°C to +50°C Temperature range: Orifice: 4,3 mm Flow (at 6 bar, $\Delta P=1$ bar): 5,2W: 500 Nl/min (Cv 0,50) – 2,4W: 350Nl/min (Cv 0,35) – 1,0W: 300 Nl/min (Cv 0,30) Epoxy encapsulated – 100% ED Coil: Voltage range: -15% to +10% of nominal voltage Protection: IP54 (electrical connection) 5,2W - 2,4W - 1,0W Power: Energize: 17,4 ms Response times : (with 5,2 W coil) De-energise : 3,8 ms

Options : • NPTF threads

Spare parts : • Flow control assembly : N-47004

DIMENSIONS Dimensions shown are metric (mm)





Function Port size Floш (Max) Individual Mounting 5/2 G1/8" - G1/4" 500 NI/min

OPERATIONAL BENEFITS

- Short stroke solenoid produces high energization shifting force.
- 2. High force return spring due to high force solenoid maximizes both energization and de-energization shifting forces.
- 3. Built-in wear compensation valve stroke is shorter than solenoid stroke.
- 4. Four bonded balanced poppets on a onepiece valve stem.
- 5. End poppets seal first on conical seats and cushion inlet poppet, eliminating cutting.

 6. Exhaust seals are not under inlet pressure thus
- $reducing\ friction.$
- inline models.
- 8. Short stroking balanced poppet alows for direct solenoid operation with high shifting forces, minimized friction, fast response and high flow in a small package.



HOW TO ORDER

Port size	Without flow controls	With flow controls
	12 W T T T T T T T T T T T T T T T T T T	12 W 14
Valve less base	47A-L10-H xxx-xxx	47A-L10-H xxx-xxx
G1/8"	47A-LCA-H xxx-xxx	47A-LCB-H xxx-xxx
G1/4"	47A-LDA-H xxx-xxx	47A-LDB-H xxx-xxx

SOLENC	OID OPERATOR ➤		H <u>x</u>	XX-XX	X ·		
XX	Voltage	X	Wire length	X	Manual operator	XX	Electrical connection
DA	24V=/5,2W	Α	45 cm	1	Non-locking	MA	Plug-in wire assembly
DB	24V=/2,4W	В	60 cm	2	Locking	MC	Plug-in wire assembly with
DC	24V=/1,8W	C	90 cm				light
DD	24V=/1,0W					BA	Flying leads
AA	120V~/6,7W					ВС	Flying leads with light
	·	_				MT	Plug-in wire assembly with rectifier & light

Other options available, see page **options**. Note: AC voltage requires connector with rectifier.





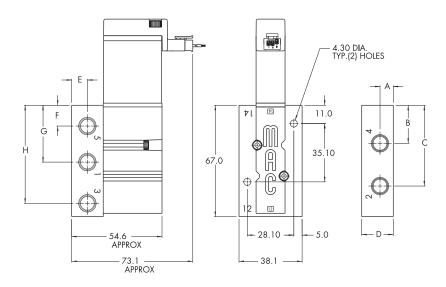


Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Vacuum to 8 bar
Lubrication :	Not required, if used select a medium aniline point lubricant (between 80°C and 100°C)
Filtration:	40 µ
Temperature range :	-18°C to +50°C
Orifice :	4,3 mm
Flow (at 6 bar, $\Delta P = 1 bar$):	5,2W : 500 NI/min (Cv 0,50) – 2,4W : 350NI/min (Cv 0,35) – 1,0W : 300 NI/min (Cv 0,30)
Coil:	Epoxy encapsulated – 100% ED
Voltage range:	-15% to +10% of nominal voltage
Protection:	IP54 (electrical connection)
Power:	5,2W - 2,4W - 1,0W
Response times :	Energize: 17,4 ms
(with 5,2 W coil)	De-energise : 3,8 ms

• NPTF threads Options :

Pressure seal body to base: 16628 • Mounting screw (x2): 35043
Flow control assembly (x2): N-04001 Spare parts :

DIMENSIONS Dimensions shown are metric (mm)





Function	Port size	Flow (Max)	Manifold Mounting
5/2	G1/8" - G1/4"	500 NI/min	Stacking

OPERATIONAL BENEFITS

- Short stroke solenoid produces high energization shifting force.
- 2. High force return spring due to high force solenoid maximizes both energization and de-energization shifting forces.
- 3. Built-in wear compensation valve stroke is shorter than solenoid stroke.
- 4. Four bonded balanced poppets on a onepiece valve stem.
- 5. End poppets seal first on conical seats and cushion inlet poppet, eliminating cutting.

 6. Exhaust seals are not under inlet pressure thus
- $reducing\ friction.$
- 7. Integral non-rising flow controls available on inline models.
- 8. Short stroking balanced poppet alows for direct solenoid operation with high shifting forces, minimized friction, fast response and high flow in a small package.



HOW TO ORDER

Port size	Without flow controls	With flow controls
	12 W 14 14	12 4 14
G1/8"	47A-SC0-H xxx-xxx	47A-TC0-H xxx-xxx
G1/4"	47A-SD0-H xxx-xxx	47A-TD0-H xxx-xxx

SOLENG	OID OPERATOR ➤		Н	XXX-X	XX.			
						_		
XX	Voltage	X	Wire length	X		Manual operator	XX	Electrical connection
DA	24V=/5,2W	A	45 cm	1		Non-locking	MA	Plug-in wire assembly
DB	24V=/2,4W	В	60 cm		2	Locking	MC	Plug-in wire assembly with
DC	24V=/1,8W	C	90 cm					light
DD	24V=/1,0W						BA	Flying leads
AA	120V~/6,7W						ВС	Flying leads with light
	·						MT	Plug-in wire assembly with rectifier & light

* Other options available, see page **options**. Note: AC voltage requires connector with rectifier.







Fluid : Compressed air, vacuum, inert gases Pressure range : Vacuum to 8 bar Lubrication : Not required, if used select a medium aniline point lubricant (between 80°C and 100°C) Filtration: -18°C to +50°C Temperature range: Orifice: 4,3 mm Flow (at 6 bar, $\Delta P=1$ bar): 5,2W: 500 Nl/min (Cv 0,50) – 2,4W: 350Nl/min (Cv 0,35) – 1,0W: 300 Nl/min (Cv 0,30) Epoxy encapsulated – 100% ED Coil: Voltage range: -15% to +10% of nominal voltage Protection: IP54 (electrical connection) 5,2W - 2,4W - 1,0W Power: Response times : Energize : 17,4 ms (with 5,2 W coil) De-energise : 3,8 ms

Options : • NPTF threads

Spare parts : • Inlet isolator: 28451 • Exhaust isolator: N-47009 • Tie Rod (x2): 79057

DIMENSIONS Dimensions shown are metric (mm) Ø 6.3 THRU. 15.8 **⊕** -⊠∻ **⊕** -⊠÷ **⊕** -□+ \triangleleft \oplus \oplus (MAC) (MAC) OHW † [] († [] (+ II (ADDRESS STATES Ø 6.3 THRU. \oplus Dim 1/8" 22.8 18.4 1/4" 24.2 19



Function Floш (Max) Manifold Mounting Port size

5/2 G1/8" - G1/4" 500 NI/min

OPERATIONAL BENEFITS

- 1. Short stroke solenoid produces high energization shifting force.
- 2. High force return spring due to high force solenoid maximizes both energization and de-energization shifting forces.
- 3. Built-in wear compensation valve stroke is shorter than solenoid stroke.
- 4. Four bonded balanced poppets on a onepiece valve stem.
- 5. End poppets seal first on conical seats and
- cushion inlet poppet, eliminating cutting.

 6. Exhaust seals are not under inlet pressure thus reducing friction.
- 7. Integral non-rising flow controls available on inline models.
- 8. Short stroking balanced poppet alows for direct solenoid operation with high shifting forces, minimized friction, fast response and high flow in a small package.



HOW TO ORDER

Port size	Model number
	12 4 1 1 1 1 1 1
Valve less base	47A-L10-H xxP-xxx
G1/8"	47A-LCJ-H xxP-xxx
G1/4"	47A-LDJ-H xxP-xxx

SOLENC	DID OPERATOR ➤		H <u>xx</u> P- <u>xxx</u> .		
XX	Voltage	X	Manual operator	XX	Electrical connection
DA	24 V=/5,2W	1	Non-locking	FA	Base plug-in
DB	24 V=/2,4W	2	Locking	FB	Base plug-in w/ ground
DC	24 V=/1,8W			FC	Base plug-in w/ LED light
DD	24 V=/1,0W			FD	Base plug-in w/ LED light w/ ground
AA	120 V~/6.7W			FT	Base plua-in w/ rectifier and light

Other options available, see page options.

Note: AC voltage requires connector with rectifier.

OPTIONS

47A-xxJ-Hxxx-xxx

- J Manifold base, side cylinders (m ddle station)
 K Manifold base, bottom cylinders | middle station)
 L Right end manifold base, side cy inders
 M Right end manifold base, bottom cylinders
 N Lett end manifold base, side cyli

Fastening kit required: N-47005-01. Note: Manifold assemblies consist of (1) left end manifold, (1) right end manifold, and middle station manifolds.







Power : Response times :

Fluid : Compressed air, vacuum, inert gases Pressure range : Vacuum to 8 bar Lubrication : Not required, if used select a medium aniline point lubricant (between 80°C and 100°C) Filtration:-18°C to +50°C Temperature range: Orifice: 4,3 mm Flow (at 6 bar, $\Delta P=1$ bar): 5,2W: 500 Nl/min (Cv 0,50) – 2,4W: 350Nl/min (Cv 0,35) – 1,0W: 300 Nl/min (Cv 0,30) Epoxy encapsulated – 100% ED Coil: Voltage range: -15% to +10% of nominal voltage Protection: IP54 (electrical connection)

(with 5,2 W coil) De-energise: 3,8 ms

Options : • NPTF threads • Sandwich flow control: FC47A-AA

5,2W - 2,4W - 1,0W

Energize: 17,4 ms

Spare parts : • Inlet/exhaust isolator: 28447 • Valve cover plate: M-47001

DIMENSIONS Dimensions shown are metric (mm) 112.7 101.0 20.8



Pressure regulators

Sandwich pressure regulator with manual adjust knob

OPERATIONAL BENEFITS

- Easy mounting: saves on installation costs in comparison with inline regulators.
- 2. 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 (KNOB ADJUSTMENT)

Gauge	Single pressure
No gauge port	PR47A-EAAA
With gauge Port	PR47A-EABA

REGULATORS FOR "NON PLUG-IN" VALVES (KNOB ADJUSTMENT)

Gauge	Single pressure
No Gauge port	PR47A-FAAA
With Gauge Port	PR47A-FABA

OPTIONS

Pressure range



Adjustment for : P



Non plug-in regulator









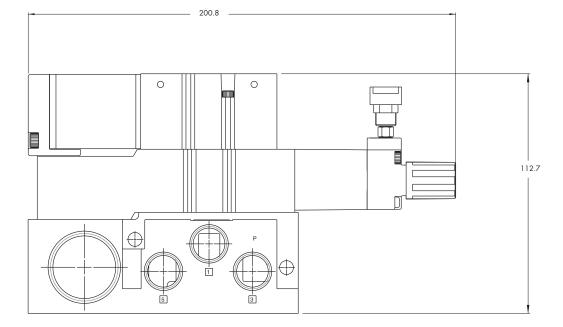
Fluid: Compressed air, inert gases Pressure range : 0 to 8 bar Regulating range : 0 to 8 bar Lubrication: Not required, if used select a medium aniline point lubricant (between 80°C and 100°C) 40 µ Filtration: -18°C to +50°C Temperature range : Flow (at 6 bar, $\Delta P = 1 bar$): 400 NI/min (Cv 0.4)

Spare parts :

Pressure regulator (less sandwich block): PR47A-G0xx (knob), PR47A-C0xx (screwdriver slot), PR47A-L0xx (screwdriver slot with locknut)
 Gauge: 24177-160 (0 to 10,7 bar, 23 mm)
 24177-100 (0 to 6,7 bar, 23 mm)
 24177-060 (0 to 4 bar, 23 mm)

DIMENSIONS

Dimensions shown are metric (mm)





Options

Codification table for voltages / Manual operators / Electrical connections

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

DJ 12 V=/1,0 W PL 120 V=/6,3 W Solenoid plus blocking diode plus light with suppression diode plus blocking diode & light & ground wire 2. WIRE LENGTH FT FA with full wave rectifier plus light FU FA with full wave rectifier plus light wire assembly O No lead wire (use with "MJ", "MM" & "K" style connectors) A 45 cm = 18" B 60 cm = 24" MD MA with light & ground wire C 90 cm - 36" ME MA with suppression diode plus blocking diode & ground wire D 120 cm - 48" MF MA with suppression diode D 120 cm - 96" MG MA with suppression diode plus light F 240 cm - 96" MH MA with suppression diode plus light MA with suppression diode plus light & ground wire MR MA with suppression diode plus light & ground wire MR MA with suppression diode plus locking diode MR MA with suppression diode plus blocking diode MR MA with suppression diode plus blocking diode MR MA with suppression diode plus blocking diode & ground wire MR MA with suppression diode plus blocking diode & ground wire MR MA with suppression diode plus blocking diode & ground wire MR MA with suppression diode plus blocking diode & light		1. VOLTAGE	H-XX X-X XX	ELECTRICAL CONNECTION
AA 120 V-/ 501tz, 120 V-/ 601tz (s.7 W) 120 V-/ 501tz, 220 V-/ 601tz (s.6 W) 120 V-/ 501tz, 220 V-/ 601tz (s.6 W) 120 V-/ 501tz, 240 V-/ 601tz (s.8 W) 120 V-/ 501tz, 240 V-/ 601tz (s.6 W) 120 V-/ 501tz, 240 V-/ 601tz, 240			BL	BA with full wave rectifier & ground wire
Just connector with recilier AC	H-XX X-X XX	VOLTAGE	BT	BA with full wave rectifier plus light
General Connector with rectifier FA Boxo plug in FA Boxo plug in FA Boxo plug in FA FA FA FA FA FA FA F	AA	120 V~/ 50Hz, 120 V~/ 60Hz (6,7 W) (use connector with rectifier)	BU	BA with full wave rectifier plus light & ground wire
AC 240 V. / 50Hz, 240 V. 46Hz (58 W) (bus connector with redifier) AD 24 V 50Hz, 24 V 66Hz (7.8 W) (bus connector with redifier) AD 24 V 50Hz, 24 V 66Hz (7.8 W) (bus connector with redifier) AD 24 V 50Hz, 24 V 66Hz (7.8 W) (bus connector with redifier) BD 24 V 72.4 W FF A with suppression diode bus provided a sight of the connector with redifier) BD 24 V 72.4 W FF A with suppression diode bus light a ground wire FF FA with suppression diode bus light a ground wire FF FA with suppression diode bus light a ground wire FF FA with suppression diode bus locking diode a ground wire FF F	AB	220 V~/ 50Hz, 220 V~/ 60Hz (5,6 W)	H-XX X-X XX	PLUG-IN CONNECTOR
General Connector with rectifier) FC FA with Light & ground wire FF FA with suppression dicade plan light & ground wire FF FA with suppression dicade p			FA	Base plug-in
AD 24 V-/ 50 Mr. 24 V-/ 1,0 Wr. 24 V-/ 1,0 Wr. 24 V-/ 1,0 Wr. 25 Mr. 25 M	AC	240 V~/ 50Hz, 240 V~/ 60Hz (5,8 W)	FB	FA with ground wire
Cuse connector with rectifier) DA 24 V=/5 2 W FF FA with suppression clicele & ground wire		· ·	FC	FA with light
DA 24 V-/5,2 W FF FA with suppression diode & ground wire DE 24 V=/1,8 W FF FA with suppression diode & light of FF FA with suppression diode & light of FF FA with suppression diode & light of FF FA with suppression diode by light & ground wire DF 12 V=/5,2 W FF FA with full wove rectifier DF 12 V=/5,2 W FF FA with full wove rectifier & ground wire DF 12 V=/1,8 W FF FA with full wove rectifier & ground wire DF 12 V=/1,8 W FF FA with suppression diode plus blocking diode & ground wire DF FA With suppression diode plus blocking diode & ground wire PF FA with suppression diode plus blocking diode & ground wire PF FA with suppression diode plus blocking diode & light & ground wire with WIT, "MM* & "K" style connectors) A 45 cm = 18" D No lead wire (use with "MU", "MM* & "K" style connectors) A 45 cm = 18" C 90 cm = 36" MC MA with suppression diode & ground wire MM MA with suppression diode & ground wire MM MA with suppression diode & ground wire MM MA with suppression diode By light & ground wire MM MA with suppression diode By light & ground wire MM MA with suppression diode by light & ground wire MM MA with suppression diode by light & ground wire MM MA with suppression diode by light & ground wire MM MA with suppression diode by light & ground wire MM MA with suppression diode by light & ground wire MM MA with suppression diode by light & ground wire MM MA with suppression diode by light & ground wire MM MA with suppression diode by light & ground wire MM MA with suppression diode by light & ground wire MM MA with suppression diode by light & ground wire MM MA with suppression diode by light & ground wire MM MA with suppression diode by light & ground wire MM MA with suppression diode by light & ground wire MM MA with suppression diode by light & ground wire MM MA with suppression diode by light & ground wire MM MA with suppression diode by light & ground wire MM MA with suppression diode by light & ground wire MM MA with suppression diode by light & ground wire MM MA with sup	AD	24 V~/ 50Hz, 24 V~/ 60Hz (7,8 W)	FD	
DB		· ·		
DDC 24 V=/1,8 W DD 24 V=/1,0 W DF 12 V=/5,2 W DG 12 V=/5,2 W DG 12 V=/2,4 W DF 12 V=/2,4 W DF 12 V=/1,0 W DF 12				
DP 24 V=/1,0 W DF 12 V=/5,2 W DF 12 V=/5,2 W DF 12 V=/5,2 W DF 12 V=/1,8 W DF 12 V=/1,9 W DF 12 V=/1,0 W DF 12				· · · · · · · · · · · · · · · · · · ·
DF 12 V=/5,2 W DG 12 V=/2,4 W THE LENGTH DI 12 V=/1,0 W TR ELENGTH LX X.X XX WIRE LENGTH A 45 cm = 18" D No lead wire (use with "MJ", "MM" & "K" style connectors) A 45 cm = 18" D 120 m = 24" D M M With suppression diode plus blocking diode & light & ground wire D M No lead wire (use with "MJ", "MM" & "K" style connectors) A 45 cm = 18" D No lead wire (use with "MJ", "MM" & "K" style connectors) A 45 cm = 18" D No lead wire (use with "MJ", "MM" & "K" style connectors) A 45 cm = 18" D No lead wire (use with "MJ", "MM" & "K" style connectors) A 45 cm = 18" MC MA with suppression diode by subscloking diode & light & ground wire MB MA with suppression diode government of the suppression diode by subscloking diode & light & ground wire MF MA with suppression diode & ground wire MF MA with suppression diode by subscloking diode & light & ground wire MF MA with suppression diode by subscloking diode & light & ground wire MF MA with suppression diode by subscloking diode & light & ground wire MF MA with suppression diode by subscloking diode & light & ground wire MF MA with suppression diode by subscloking diode & light & ground wire MF MA with suppression diode by subscloking diode & light & ground wire MF MA with suppression diode by subscloking diode & light & ground wire MF MA with suppression diode by subscloking diode & light & ground wire MF MA with suppression diode by subscloking diode & light & ground wire MF MA with suppression diode by subscloking diode & light & ground wire MF MA with suppression diode by subscloking diode & light & ground wire MF MA with suppression diode by subscloking diode & light & ground wire MF MA with suppression diode by subscloking diode & light & ground wire MF MA with suppression diode by subscloking diode & light & ground wire MF MA with suppression diode by subscloking diode & light & ground wire MF MA with suppression diode by subscloking diode & light & ground wire MF MA with suppression diode by subscloking diode & light & ground wire MF MA with suppression diode by subsc	DC	* *		
DB 12 V=/2,4 W The				
DH 12 V=/1,8 W DJ 12 V=/1,0 W TFR FA with suppression diode plus blocking diode & Ground win FR FA with suppression diode plus blocking diode & Iight & Ground wire 2. WIRE LENGTH TF FA with full wove rectifier plus light & Ground wire PXX X-X XX WIRE LENGTH No load wire (use with "MJ", "MM" & "K" syle connectors) A 45 cm = 18" B 60 cm = 24" MD MA with light A ground wire C 90 cm = 36" ME MA with suppression diode plus blocking diode & Iight & MA with ground wire E 180 cm - 72" MG MA with suppression diode plus blocking diode & Iight & MA with suppression diode plus flight & Ground wire E 180 cm - 72" MG MA with suppression diode plus light & Ground wire MG MA with suppression diode plus light & Ground wire MG MA with suppression diode plus light & Ground wire MG MA with suppression diode plus light & Ground wire MG MA with suppression diode plus light & Ground wire MG MA with suppression diode plus light & Ground wire MG MA with suppression diode plus locking diode & Iight MA with suppression diode plus locking diode & Iight MA with suppression diode plus locking diode & Iight MA with suppression diode plus locking diode & Iight MA with suppression diode plus locking diode & Iight MA with suppression diode plus locking diode & Iight MA with full wove rectifier plus light & Ground wire MA with full wove rectifier plus light & Ground wire MM MA with suppression diode plus blocking diode & Iight MA with suppression diode plus blocking diode & Iight MA with suppression diode plus blocking diode & Iight MA with full wove rectifier plus light & Ground wire MM Ma with suppression diode plus locking diode MA with suppression diode Plus Iight & Ground wire MM MA with suppression diode Plus Iight & Ground wire MM MA with suppression diode plus Iight & Ground wire MM MA with suppression diode Plus Iight & Ground wire MM MA with suppression diode Plus IIght & Ground wire MM MA with suppression diode Plus IIght & Ground wire MM MA with suppression diode Plus IIght & Ground wire MM MA with suppression diode Plus IIght				
DJ 12 V=/1,0 W 12 V=/6,3 W 2. WIRE LENGTH 2. WIRE LENGTH FI FA with suppression diode plus blocking diode & light & ground wire cause with "MJ", "MM" & "K" style connectors] A 45 cm = 18" B 60 cm = 24" MD MA with light & ground wire C 90 cm - 36" B 180 cm - 72" MB MA with suppression diode plus light @ ground wire E 180 cm - 72" MG MA with light & ground wire B 180 cm - 96" MH MA with suppression diode & ground wire MA with suppression diode plus light & ground wire MA with suppression diode plus light & ground wire MR MA with suppression diode plus light & ground wire MR MA with suppression diode plus light & ground wire MR MA with suppression diode plus light & ground wire MR MA with suppression diode plus light & ground wire MR MA with full wore rectifier & ground wire MR MA with suppression diode plus light & ground wire MR MA with full wore rectifier & ground wire MR MA with full wore rectifier & ground wire MR MA with full wore rectifier & ground wire MR MA with suppression diode plus light & ground wire MR MA with full wore rectifier blus light & ground wire MR MA with full wore rectifier blus light & ground wire MR MA with suppression diode plus light & ground wire MR MA with suppression diode plus light & ground wire MR MA with full wore rectifier blus light & ground wire MR MA with full wore rectifier blus light & ground wire MR MA with suppression diode plus light & ground wire MR MA with suppression diode plus light & ground wire MR MA with suppression diode MR MA with suppression diode MR MA with light & ground wire MR MA with light & ground wire MR MA with suppression diode MR MA with light & ground wire MR MA with suppression diode MR MA with light & ground wire MR MA with suppression diode blus light & ground wire MR MA with suppression diode blus light & ground wire MR MA with light & ground wire MR MA with light & ground wire MR MA with suppression diode blus light & ground wire MR MA with suppression diode de & light & ground wire MR MA with su				
### LEASTH ### LENGTH 2. WIRE LENGTH ### 2. WIRE LENGTH 2. WIRE LENGTH ### 2. WIRE LENGTH D No load wire (use with "MJ", "MM" & "K" style connectors) A 45 cm = 18"				FA with suppression diode plus blocking diode & ground wire
## Canal State Company		<u> </u>		
FU FA with full wave rectifier plus light & ground wire	DL	120 V=/6,3 W	*FS	FA with suppression diode plus blocking diode & light & ground wire
H-XX X-X XX WIRE LENGTH O No lead wire (use with "MJ", "MM" & "K" style connectors) A 4 5c ms - 18" B 60 ms - 24" C 90 cm - 36" ME MA with suppression diode D 120 cm - 48" MF MA with suppression diode B 180 cm - 72" MG MA with suppression diode F 240 cm - 60" MF MA with suppression diode & ground wire MF MA with suppression diode by us light G 30.5 cm = 120" MK MA with suppression diode by us light MF MA with suppression diode by us light & ground wire MF MA with suppression diode by us light & ground wire MF MA with suppression diode by us locking diode MF MA with suppression diode by us locking diode MF MA with suppression diode by us locking diode MF MA with suppression diode by us locking diode MF MA with suppression diode by us locking diode & light & ground wire MF MA with suppression diode by us locking diode & light & ground wire MF MA with suppression diode by us locking diode & light & ground wire MF MA with full wave rectifier plus light & ground wire MF MA with full wave rectifier plus light & ground wire MF MA with full wave rectifier plus light & ground wire MF MA with full wave rectifier plus light & ground wire MF MA with full wave rectifier plus light & ground wire MF MA with full wave rectifier plus light & ground wire MF MA with full wave rectifier plus light & ground wire MF MA with full wave rectifier plus light & ground wire MF MA with full wave rectifier plus light & ground wire MF MA with full wave rectifier plus light & ground wire MF MA with full wave rectifier plus light & ground wire MF MA with full wave rectifier plus light & ground wire MF MA with full wave rectifier MF MA with full wave rectifier MF MA With light & with MA With MF MA W		2. WIRE LENGTH	FT	FA with full wave rectifier plus light
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## 366 cm = 144" ML MA with full wave rectifier & ground wire	F	240 cm - 96"	MH	
#AN MA with suppression diode plus blocking diode "MP MA with suppression diode plus blocking diode & ground wire "MR MA with suppression diode plus blocking diode & ground wire "MR MA with suppression diode plus blocking diode & light & ground wire "MR MA with suppression diode plus blocking diode & light & ground wire "MR MA with suppression diode plus blocking diode & light & ground wire "MR MA with suppression diode plus blocking diode & light & ground wire "MR MA with suppression diode plus blocking diode & light & ground wire "MR MA with suppression diode plus blocking diode & light & ground wire "MR MA with suppression diode plus blocking diode & light & ground wire "MR MA with suppression diode plus blocking diode & light & ground wire "MR MA with suppression diode plus blocking diode & light & ground wire "MR MA with suppression diode plus blocking diode & light & ground wire "MR MA with suppression diode plus blocking diode & light & ground wire "MR MA with suppression diode plus blocking diode & light & ground wire "MR MA with suppression diode plus blocking diode & light & ground wire "MR MA with suppression diode plus blocking diode & light & ground wire "MR MA with suppression diode plus blocking diode & light & ground wire "MR MA with suppression diode plus blocking diode & light & ground wire "MR MA with suppression diode plus blocking diode & light & ground wire "MR MA with suppression diode plus blocking diode & light & ground wire "MR MA with suppression diode plus blocking diode & light & ground wire "MR MA with suppression diode plus blocking diode & light & ground wire "MR M with suppression diode plus blocking diode & light & ground wire "MR M with suppression diode plus blocking diode & light & ground wire "MR M with suppression diode plus blocking diode & light & ground wire "MR M with suppression diode plus blocking diode & light & ground wire "MR M with suppression diode plus blocking diode & light & ground wire "MR M with suppression diode plus blocking di	G	305 cm = 120"	MK	MA with full wave rectifier
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O No operator 1 Non-locking recessed 2 Locking recessed 3 Non-locking extended 4 Locking extended 5 MM Plug-in housing without wire assembly ('MA' option without wire assembly) 6 MM Plug-in housing without wire assembly ('MB' option without wire assembly) 7 KA Mini square connector 8 KA with suppression diode 8 KC KA with M.O.V. 8 BB BA with suppression diode 8 C BA with light 8 C BA with light 8 C BA with light & ground wire 8 C BA with suppression diode 8 BB BA with suppression diode 8 BC BA with suppression diode 8 BC BA with suppression diode & ground wire 8 C BA with suppression diode & ground wire 8 C BA with suppression diode blus light 8 C KK KJ with suppression diode 8 C KK KJ with suppression diode 8 C BA with suppression diode plus light 8 C KK KJ with suppression diode 8 C KK KJ with full wave rectifier & M.O.V. 8 C KA with full wave rectifier & M.O.V. 8 C KA with full wave rectifier & M.O.V. 8 C KA with full wave rectifier & M.O.V. 8 C KA with full wave rectifier Blus light & M.O.V. 8 C KA with full wave rectifier Blus light & M.O.V. 8 C KA with full wave rectifier Blus light & M.O.V.			*MR	
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4. ELECTRICAL CONNECTION 4. ELECTRICAL CONNECTION BA Flying leads BA With ground wire BB BA with ground wire BB BA with light BC BA with light BC BA with light & ground wire BB BA with suppression diode BC BA with suppression diode BC BA with suppression diode BC BA with light & ground wire BC BA with suppression diode BC BA with suppression diode ground wire BC BA with suppression diode plus light KL KJ with M.O.V. BC KA with suppression diode KN KA with full wave rectifier KN KA with full wave rectifier & M.O.V. KN KA with full wave rectifier & M.O.V. KN KA with full wave rectifier & M.O.V. KN KA with full wave rectifier & light KN KA with full wave rectifier & light KN KA with full wave rectifier bus light & M.O.V. KN KA with full wave rectifier bus light & M.O.V. KN KA with full wave rectifier bus light & M.O.V. KN KA with full wave rectifier bus light & M.O.V. KN KA with full wave rectifier bus light & M.O.V.	2	Locking recessed	MU	MA with full wave rectifier plus light & ground wire
## A. ELECTRICAL CONNECTION ## A. ELECTRICAL CONNECTION ## A. Mini square connector ## KA Mini square connector ## KB KA with suppression diode ## KC KA with M.O.V. ## BB BA with ground wire ## BC BA with light ## BB BA with suppression diode ## BB BA with suppression diode plus light ## BB BA with suppression diode plus light & ground wire ## BB BA with suppression diode plus locking diode & ground wire ## BB BA with suppression diode plus blocking diode & light ## BB BA with suppression diod	3	Non-locking extended	MJ	Plug-in housing without wire assembly ('MA' option
## A. ELECTRICAL CONNECTION ## A. Mini square connector ## KB KA with suppression diode ## KC KA with M.O.V. ## BB BA with ground wire ## BC BA with light ## BB BA with suppression diode ## BB BA with suppression diode glus light ## BB BA with suppression diode plus light & ground wire ## BB BA with suppression diode plus light & ground wire ## BB BA with suppression diode plus locking diode ## BB BA with suppression diode plus blocking diode & ground wire ## BB BA with suppression diode plus blocking diode & light ## BB	4	Locking extended		without wire assembly)
H-XX X-X XX ELECTRICAL CONNECTION BA Flying leads Flying leads BA with ground wire BC BA with light BC BA with light			MM	Plug-in housing without wire assembly ('MB' option
H-XX X-X XX ELECTRICAL CONNECTION BA Flying leads KC KA with M.O.V. BB BA with ground wire KD KA with light KE KA with light & suppression diode KF KA with light & suppression diode BD BA with light & ground wire BA with suppression diode BA with suppression diode BA with suppression diode & ground wire BA with suppression diode plus light KE KA with light & suppression diode KF KA with light & M.O.V. KJ Mini square connector – male only KK KJ with suppression diode KI KJ with M.O.V. KJ With suppression diode KI KJ with M.O.V. KJ With M.O.V. KL KJ with M.O.V. KM KA with full wave rectifier KM KA with full wave rectifier & M.O.V. KP KA with full wave rectifier & M.O.V. KR With suppression diode plus blocking diode & light of the lead wire KR WA with full wave rectifier blus light & M.O.V. KR WI Wave rectifier blus light & M.O.V. KR With full wave rectifier blus light & M.O.V. KR With full wave rectifier blus light & M.O.V. KR With full wave rectifier blus light & M.O.V. KR WA with full wave rectifier blus light & M.O.V. KR WA with full wave rectifier blus light & M.O.V.		4. ELECTRICAL CONNECTION		without wire assembly)
BA Flying leads KC KA with M.O.V. BB BA with ground wire KD KA with light KE KA with light was uppression diode BD BA with light & ground wire BB BA with suppression diode BF BA with suppression diode BG BA with suppression diode & ground wire BG BA with suppression diode plus light KI KJ with suppression diode KI KJ with suppression diode KI KJ with suppression diode KI KJ with M.O.V. KJ Mini square connector – male only KK KJ with suppression diode KI KJ with M.O.V. KJ Mini square connector – male only KK KJ with suppression diode KI KJ with M.O.V. KJ With suppression diode KI KJ with M.O.V. KJ With suppression diode KI KJ with M.O.V. KJ With suppression diode KM KA with full wave rectifier KN KA with full wave rectifier & M.O.V. KP KA with full wave rectifier & M.O.V. KS Was with suppression diode plus blocking diode & light KR W With full wave rectifier blus light & M.O.V. KS Wote: Blocking diode is located in the lead wire			KA	Mini square connector
BB BA with ground wire BC BA with light & ground wire BC BA with suppression diode & ground wire BC BA with suppression diode plus light BC BA with suppression diode plus light BC BA with suppression diode plus light BC BA with suppression diode plus locking diode BC BA with suppression diode plus blocking diode & light BC BA with suppression diode plus blocking diode & light BC BA with suppression diode plus blocking diode & light BC BA with suppression diode plus blocking diode & light BC BA with suppression diode plus blocking diode & light BC BA with suppression diode plus blocking diode & light BC BA with suppression diode plus blocking diode & light BC BA with suppression diode plus blocking diode & light BC BA with suppression diode	H-XX X-X XX	ELECTRICAL CONNECTION	KB	KA with suppression diode
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BE BA with suppression diode & ground wire BG BA with suppression diode plus light BH BA with suppression diode plus light & ground wire BBN BA with suppression diode plus blocking diode & ground wire BBN BA with suppression diode plus blocking diode & light	ВС	BA with light	KE	
BF BA with suppression diode & ground wire BG BA with suppression diode plus light BH BA with suppression diode plus light & ground wire BN BA with suppression diode plus blocking diode BB BA with suppression diode plus blocking diode & ground wire BB BA with suppression diode plus blocking diode & ground wire BB BA with suppression diode plus blocking diode & light BB BA with suppression diode plus blocking diode & light BA with suppression diode plus blocking diode & light BA with suppression diode plus blocking diode & light & KA with full wave rectifier plus light & M.O.V. BA with suppression diode plus blocking diode & light & KS Note: Blocking diode is located in the lead wire				
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*BS BA with suppression diode plus blocking diode & light & round wire Shocking diode is located in the lead wire				
ground wire Note: Blocking diode is located in the lead wire		11 1 0		KA with full wave rectifier plus light & M.O.V.
	*BS			is located in the lead wire
	ВК	BA with full wave rectifier		

195

Check the warranty page 378