

VSD08M / VPD08M

VSD08M/VPD08M

Pilot Operated Directional Valve

SUBPLATE MOUNTING ISO 4401-08

P max 5000 PSI 350 bar Q max 160 GPM 600 I/min



The VSD08M and VPD08M pilot operated directional control valves are available with either electric solenoid or hydraulic actuation of the main spool.

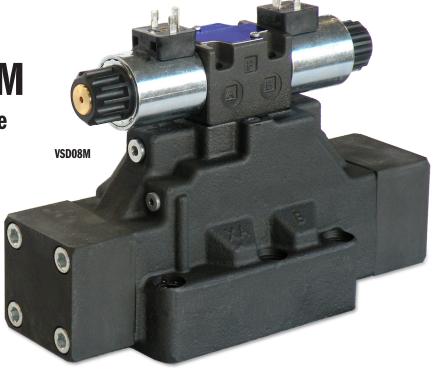
Operation: The valves are available in both 2 or 3 position and various spool flow patterns.

On VSD08M valves, the configuration for internal or external pilot/drains can be easily changed in the field. Also available to improve consistent cycling of the valve are pilot pressure reducing, pilot chokes, and main stage stroke adjustments.

▶ PERFORMANCE:

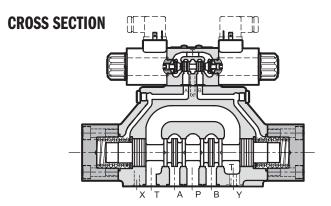
(Obtained with mineral oil with viscosity of 36 cSt at 50° C)

			VSD08M
	P - A - B ports	PSI (bar)	5000 (350)
Max	T port (external drainage)	PSI (bar)	3600 (250)
Operating Pressure:	T port (internal drainage)	PSI (bar)	AC Box 3000 (210) AC DIN 2300 (160) DC 3000 (210)
Maximum	Maximum flow rate from port P to A - B - T		160 (600)
Ambient to	Ambient temperature range		-4 / 122 (-20 / +50)
Fluid temp	Fluid temperature range		-4 / 175 (-20 / +80)
Fluid visco	Fluid viscosity range		10 - 400
Fluid conta	amination degree	according to ISO 4406:1999 class 20/18/15	
Recomme	Recommended viscosity		25
Mass: Dual Solenoid Single Solenoid VPD08M		lbs (kg)	32 (14.5) 29 (13) 28 (12.5)



FEATURES:

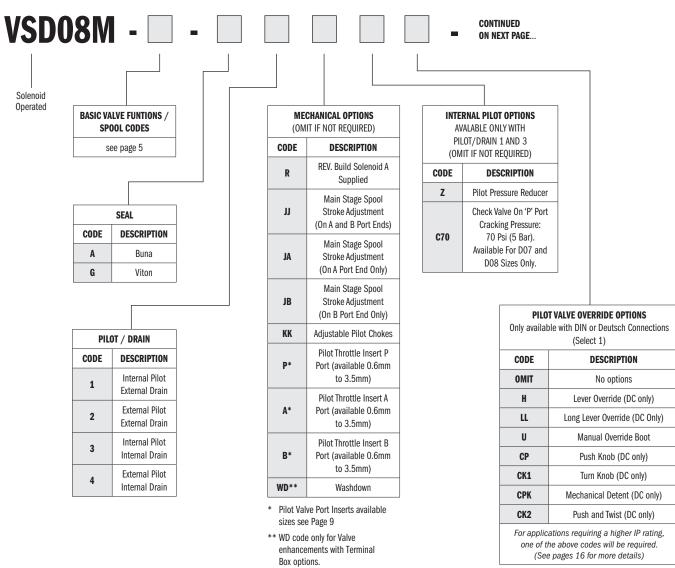
- The VSD08M are 4-ports directional valves, pilot operated, with mounting surface according to ISO 4401-08 standards
- VPD08M are the hydraulic actuated versions.
- A high pressure version (H) is available, consult factory.
- Valves are available with different spool types (see page 5), with some options for the opening control.
- They are available also with zinc-nickel surface treatments, that ensure a salt spray resistance up to 600 hours.





VSD08M / VPD08M

► IDENTIFICATION CODE:



TYPICAL ORDERING CODE: Box: VSD08M-3A-G1B-60L DIN: VSD08M-1A-G2-D24WK1

IDENTIFICATION CODE - for the hydraulic operated valves is on page #

Please see Connectors Catalog Form #1027453



VSD08M / VPD08M

► IDENTIFICATION CODE:

CONTINUED FROM LAST PAGE.		-			DESIGN LETTER
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Select 1

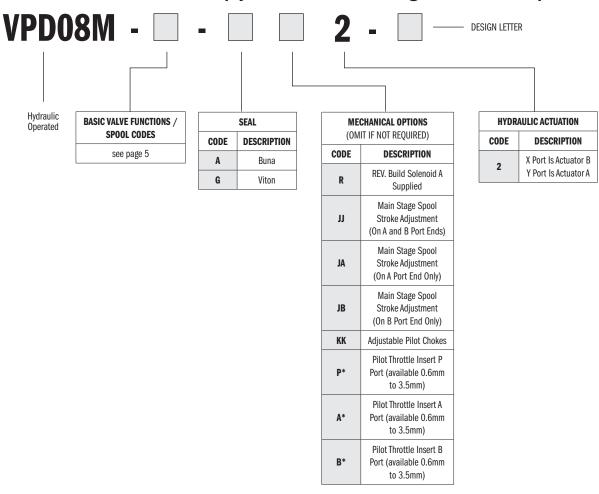
PILOT VALVES REQIRING TERMINAL BOX CONNECTIONS Reference Page 13-14				
CODE	VOLTAGE	CONNECTION TYPE		
B-60L	120 - 60hz 110 - 50hz			
B-61L	240 - 60hz 220 - 50hz	Connection Box with		
B-68L (Low Force)	120 - 60hz 110 - 50hz	terminal post and lights		
B-70L	24 V DC			
B-75L	12 V DC			
B3H-60L	120 - 60hz 110 - 50hz			
B3H-61L	240 - 60hz 220 - 50hz	Single Solenoid Box with 3 PIN MALE MINI RECEPTACLE		
B3H-68L (Low Force)	120 - 60hz 110 - 50hz	CONNECTOR		
B3H-70L	24 V DC	ON "B" PORT END		
B3H-75L	12 V DC			
B3A-60L	120 - 60hz 110 - 50hz			
B3A-61L	240 - 60hz 220 - 50hz	Single Solenoid Box with 3 PIN MALE MINI RECEPTACLE		
B3A-68L (Low Force)	120 - 60hz 110 - 50hz	CONNECTOR ON "A" PORT END		
B3A-70L	24 V DC	ON A PORTEND		
B3A-75L	12 V DC			
B4-70L	24 V DC	Box with 4 PIN MALE MICRO RECEPTACLE CONNECTOR		
B4-75L	12 V DC	ON "B" PORT END		
B4A-70L	24 V DC	Box with 4 PIN MALE MICRO RECEPTACLE CONNECTOR		
B4A-75L	12 V DC	ON "A" PORT END		
BD4-70L	24 V DC	Box with 4 PIN MALE MICRO RECEPTACLE CONNECTOR		
BD4-75L	12 V DC	ON "B" PORT END		
BD4A-70L	24 V DC	Box with 4 PIN MALE MICRO RECEPTACLE CONNECTOR		
BD4A-75L	12 V DC	ON "A" PORT END		
B5H-60L	120 - 60hz 110 - 50hz			
B5H-61L	240 - 60hz	Danish E DIN MAN E MINI		
B5H-68L (Low Force)	220 - 50hz 120 - 60hz 110 - 50hz	Box with 5 PIN MALE MINI RECEPTACLE CONNECTOR ON "B" PORT END		
B5H-70L	24 V DC	UN D PUKI ENU		
B5H-75L	12 V DC			
B5A-60L	120 - 60hz 110 - 50hz			
B5A-61L	240 - 60hz	Downstab E Distriction		
B5A-68L (Low Force)	220 - 50hz 120 - 60hz 110 - 50hz	Box with 5 PIN MALE MINI RECEPTACLE CONNECTOR ON "A" PORT END		
B5A-70L	24 V DC	ON A PORTEND		
B5A-75L	12 V DC			

DI	DIN / DEUTSCH CONNECTION Reference Page 14-15				
CODE	CODE VOLTAGE CONNECTION TYPE				
	DC Voltage	es			
D12WK1	12 VDC	DIN 43650 (Form A) Zinc-Nickel coating			
D12WK7	12 VDC	Deutsch DT04-2P Zinc-Nickel coating			
D12WK7D	12 VDC	Deutsch DTO4-2P Bi-Directional Diode Zinc-Nickel coating			
D14K1	14 VDC	DIN 43650 (Form A)			
D24WK1	24 VDC	DIN 43650 (Form A) Zinc-Nickel coating			
D24WK7	24 VDC	Deutsch DT04-2P Zinc-Nickel coating			
D24WK7D	24 VDC	Deutsch DTO4-2P Bi-Directional Diode Zinc-Nickel coating			
D28K1	28 VDC	DIN 43650 (Form A)			
D48K1	48 VDC	DIN 43650 (Form A)			
D110K1	110 VDC	DIN 43650 (Form A)			
D125K1	125 VDC	DIN 43650 (Form A)			
D220K1	220 VDC	DIN 43650 (Form A)			
	AC Voltage	es .			
A24K1	24 VAC	DIN 43650 (Form A)			
A48K1	48 VAC	DIN 43650 (Form A)			
A110K1	110-50Hz 120-60Hz	DIN 43650 (Form A)			
A230K1	230-50Hz 240-60Hz	DIN 43650 (Form A)			



VSD08M / VPD08M

► IDENTIFICATION CODE: (Hydraulic Piloted through X and Y Ports)



^{*} Pilot Valve Port Inserts available sizes see Page 9

TYPICAL ORDERING CODE: **VPD08M-3A-A2-A**

IDENTIFICATION CODE - for the hydraulic operated valves is on page #

Please see Connectors Catalog Form #1027453

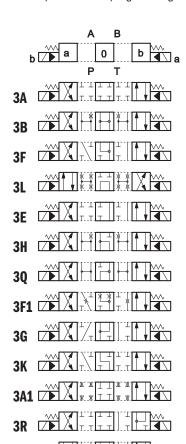


VSD08M / VPD08M

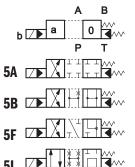
FUNCTIONS/SPOOL CODES:



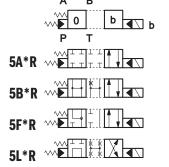
3 positions with spring centering



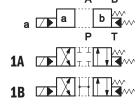
1 solenoid side A 2 positions (central + external) with spring centering



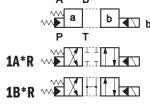
1 solenoid side B 2 positions (central + external) with spring centering



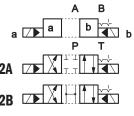
1 solenoid side A 2 external positions with return spring



1 solenoid side B 2 external positions with return spring



- 2 solenoids
- 2 positions with mechanical retention

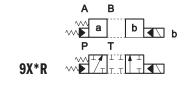


* NOT Available for VPD08M



* NOT Available for VPD08M

Three-way valve - 1 solenoid - 2 external positions, return spring



* NOT Available for VPD08M

*NOTE: 2A and 2B valve main stages are spring centered when no pilot pressure is present. Consult factory for other options.

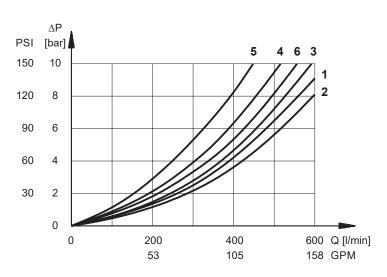
Besides the diagrams shown, which are the most frequently used, other special versions are available: consult our technical department for their identification, feasibility and operating limits.



▶ PERFORMANCE DATA:

PRESSURE DROPS Ap-Q

(obtained with viscosity 36 cSt at 50 °C)



	FLOW DIRECTION			
SPOOL TYPE	$P \rightarrow A$	P→ B	$A \rightarrow T$	$B \rightarrow T$
		CURVES (ON GRAPH	
3A, 5A	1	1	2	3
3B, 5B	2	2	1	2
3F, 5F	1	1	1	2
3L, 5L	6	6	3	4
3E	1	1	2	2
3H	6	6	3	4
30	6	6	4	3
3FI	1	1	2	3
3G	2	2	2	3
3K	1	1	1	3
3AI	1	1	2	3
3R	1	1	2	
3V	1	1		3
1 A	1	1	2	2
1B	1	1	1	1
2A	1	1	2	3

NORMAL POSITION

ACTUATED POSITION

	FLOW DIRECTION				
SPOOL TYPE	P → A	$P \rightarrow B$	$A \rightarrow T$	$B \rightarrow T$	$P \rightarrow T$
		CI	JRVES ON GRA	\PH	
3B, 5B					6 🔾
3F, 5F			4 •	4 🔷	
3L, 5L					5
3E				4	
3H					5 ◆
3Q					5 ●
3G	4 ●	4 🔷			
3K			3		
1A	1			3	

OPERATING LIMITS

The values have been obtained with mineral oil, viscosity 36 cSt at 50 °C, and filtration ISO 4406:1999 class 18/16/13.

MAXIMUM FLOW RATES GPM/LPM		
at 3000 psi (210 bar) at 5000 psi (350 bar)		
3L, 3H, 3Q	132 GPM (500 LPM)	118 GPM (450 LPM)
All the other spools	158 GPM (600 LPM)	132 GPM (500 LPM)



▶ PERFORMANCE DATA:

SWITCH TIMES

The values indicated refer to a solenoid valve working with piloting pressure of 100 bar, with mineral oil at a temperature of 50 °C, at viscosity of 36 cSt and with $P\rightarrow A$ / $B\rightarrow T$ connections.

The energizing and de-energizing times are obtained at the pressure variation which occurs on the lines.

TIMES (± 10%) [ms]	ENER	ENERGIZED		RGIZED
	2 Pos	3 Pos	2 Pos	3 Pos
AC solenoid	70	40	70	40
DC solenoid	100	70	80	50

PERFORMANCE CHARACTERISTICS

PRESSURES	VSD08M	VPD08M
Max pressure in P, A, B ports	5000 psi (350 Bar)	5000 psi (350 Bar)
Max pressure in T line with external drain	3600 psi (250 Bar)	3600 psi (250 Bar)
Max pressure in T line with internal drain	3000 psi (210 Bar) (DC) 2300 psi (160 Bar) (AC)	-
Max pressure in Y line with external drain	3000 psi (210 Bar) (DC) 2300 psi (160 Bar) (AC)	-
Minimum pilot supply pressure (Note 1)	75-175 psi (5-12 Bar) Note 1	75-175 psi (5-12 Bar) Note 1
Maximum pilot supply pressure (Note 2)	3000 psi (210 Bar) Note 2	3000 psi (210 Bar) Note 2

NOTE 1: The minimum piloting pressure can be the lower range value at low flows rates, but with higher flow rates the higher value is needed.

NOTE 2: If the working pressure is higher than these rated limits, then provide an external pilot line with pmax within the rated limits and purchase the valve with code 2 or 4 type pilot supply.

For VSD08M valves, if the external pilot line is not possible, you must opt for the version with Z type pilot supply (see page 8), providing max 5000 psi (350 bar) at inlet pressure P.



VSD08M / VPD08M

▶ OPTIONS:

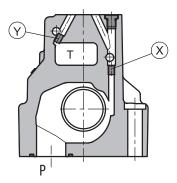
Dimensions mm [in]

PILOT AND DRAIN

Valves with electro-hydraulic actuation (VSD08M) are available with both pilot supply and drain internal or external type. The version with external drain allows a higher back pressure on the return line.

The valves with hydraulic actuation (VSD08M) are available with both pilot supply and pilot return external only.

	TYPE OF VALVE		PLUG ASSEMBLY		
			Υ		
1	Internal pilot and external drain	No	Yes		
2	External pilot and external drain	Yes	Yes		
3	Internal pilot and internal drain	No	No		
4	External pilot and internal drain	Yes	No		



X: plug M6x8 for external pilot Y: plug M6x8 for external drain

NOTE: The pilot supply and drainage configuration must be chosen when ordering.

Subsequent modification is only permitted by authorized experienced operators or at the factory.

C70 OPTION PILOT SUPPLY:

INTERNAL PILOT SUPPLY WITH BACK PRESSURE VALVE IN P PORT

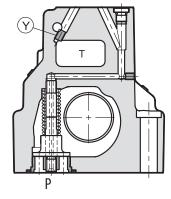
VSD08M valves are available with incorporated back pressure valve in the P port.

This is in order to reach the minimum pilot supply pressure at normal position in valves in which the inlet port (P) and the return port (T) are connected.

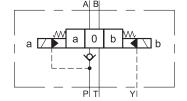
The pressure differential of the back pressure valve is to be added to that of the main valve, showed at page 6.

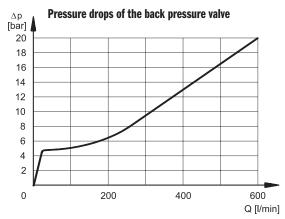
The cracking pressure is approx 85 psi (6 bar) at 15 l/min.

NOTE: The back pressure valve doesn't assure the seal so it has not be intended as a check valve.



Y: plug M6x8 for external drain

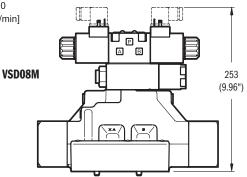




Z TYPE PILOT SUPPLY:

INTERNAL PILOT SUPPLY WITH PRESSURE REDUCING VALVE

The Z type pilot supply consists of an arrangement with internal pilot and 30 bar supply pressure to the pilot stage by means of a fixed adjustment pressure reducing valve placed between the main stage and the pilot valve.



1030676 Rev 5/25



▶ OPTIONS:

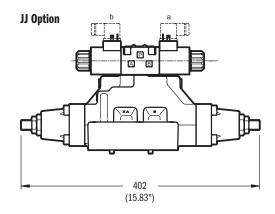
Dimensions mm [in]

CONTROL OF THE MAIN SPOOL STROKE:

Stroke control for the main spool is possible by means of special side covers so as to vary the maximum clearance opening.

This solution allows control of the flow rate from the pump to the actuator and from the actuator to the outlet, obtaining a double adjustable control on the actuator.

Add the letter JA, JB or JJ in the identification code to order this version (see page 2).

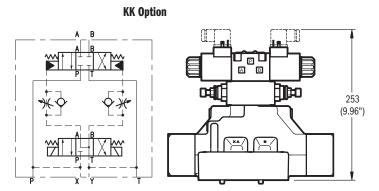


CONTROL OF THE MAIN SPOOL SHIFTING SPEED:

By placing a double flow control valve (F03MSV type) between the pilot solenoid valve and the main stage, the pilot supply flow can be adjusted and therefore the changeover smoothness can be varied.

The chokes operate by metering out (returning) on all 2 position valves, and when going to center position on 3-position valves.

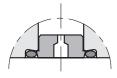
Add the letter KK in the identification code to order this version (see page 2).



PORT RESTRICTIONS

Port restrictor plugs can be ordered separately.

	Port Throttle Insert Options (Select as required)			
		Port Code		
Throttle Orifice Size	P PORT OF PILOT VALVE	A PORT OF PILOT VALVE	B PORT OF PILOT VALVE	
0.8 mm	P0.8	A0.8	B0.8	
1.0 mm	P1.0	A1.0	B1.0	
1.2 mm	P1.2	A1.2	B1.2	
1.5 mm	P1.5	A1.5	B1.5	





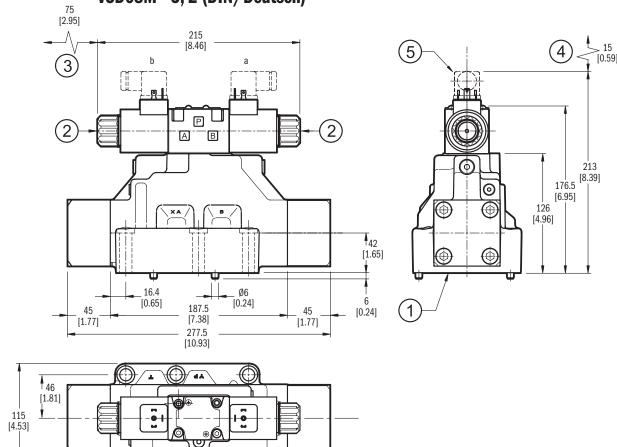
VSD08M / VPD08M

► INSTALLATION DATA:

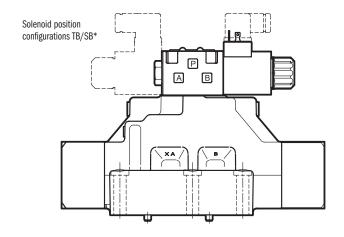
OVERALL AND MOUNTING DIMENSIONS

Dimensions mm [in]

VSD08M - 3, 2 (DIN/Deutsch)



VSD08M



Fastening: 6 bolts 1/2 - 13 UNC x 2 1/2 Grade 8 or stronger
Tightening torque: 50 to 70 lbf-ft (69 to 96 Nm)

1	Sealing rings: 4 0-ring AS568 -215 90 shore A 2 0-ring AS568 -210 90 shore A
2	Manual override
3	Coil removal space
4	Connector removal space
5	Electric connector to be ordered separately

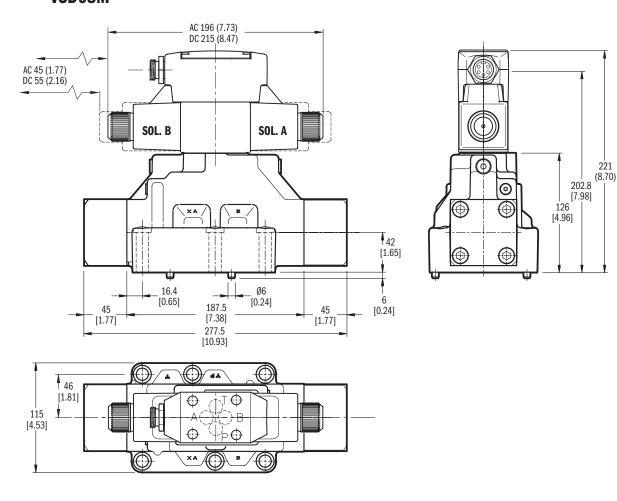


► INSTALLATION DATA:

OVERALL AND MOUNTING DIMENSIONS

Dimensions mm [in]

VSD08M



Fastening: 6 bolts 1/2 - 13 UNC x 2 1/2 Grade 8 or stronger

Tightening torque: 50 to 70 lbf-ft (69 to 96 Nm)

Sealing rings: 4 O-ring AS568 -215 90 shore A 2 O-ring AS568 -210 90 shore A



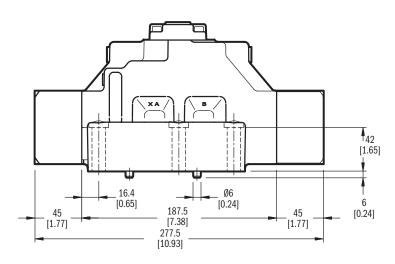
VSD08M / VPD08M

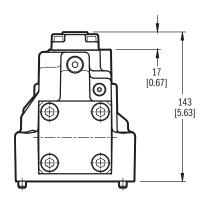
► INSTALLATION DATA:

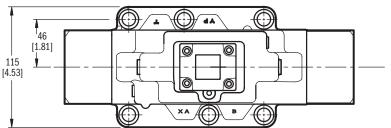
Dimensions mm [in]

OVERALL AND MOUNTING DIMENSIONS

VPD08M







INSTALLATION

Configurations with centring and recall springs can be mounted in any position; code 2 valves - without springs and with mechanical detent must be mounted with the longitudinal axis horizontal.

Valve fastening takes place by means of screws or tie rods, laying the valve on a lapped surface, with values of planarity and smoothness that are equal to or better than those indicated in the drawing. If the minimum values of planarity or smoothness are not met, fluid leakages between valve and mounting surface can easily occur.

Fastening: 6 bolts 1/2 - 13 UNC x 2 1/2 Grade 8 or stronger Tightening torque: 50 to 70 lbf-ft (69 to 96 Nm) Sealing rings: 4 O-ring AS568 -215 90 shore A 2 O-ring AS568 -210 90 shore A

Surface quality

0.01/100

NOTE: Fastening screws of class A 10.9 are prescribed for the DS*8H valves for high pressure.



VSD08M / VPD08M

► ELECTRICAL OPTIONS:

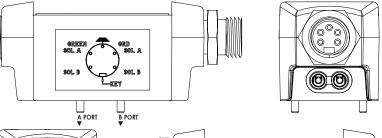
PILOT VALVE - TERMINAL BOX CONNECTION



B PORT

Standard with terminals, solenoid indicator lights.



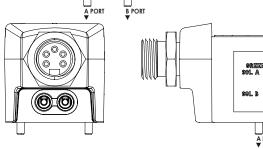


5 PIN RECEPTACLE Male mini receptacles conform to

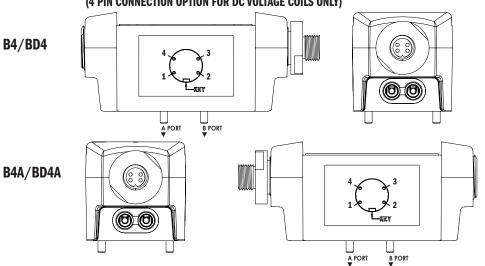
NFPA/T3.5.29 R1 - 2007 used with single or double solenoid valve. 26 mm [1"] Wrench

1	Lead to Solenoid B
2	Lead to Solenoid A
3	Ground Lead (Green)
4	Lead to Solenoid A
5	Lead to Solenoid B

B5A



(4 PIN CONNECTION OPTION FOR DC VOLTAGE COILS ONLY)



4 PIN RECEPTACLE

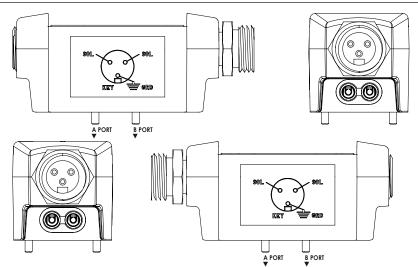
Male micro receptacles (M12x1 thread) used with DC valve only. 23 mm [7/8"] Wrench

4A & 4							
1 Brown Lead to Solenoid A							
2	White No Connection						
3	Blue	Common Lead to Sol. A & B					
4	Black	Lead to Solenoid B					

D4A & D4						
1 Brown No connection						
2	2 White Lead to Solenoid A					
3 Blue Common Lead to Sol. A & B						
4	Black	Lead to Solenoid B				



B3A



3 PIN RECEPTACLE

Male mini receptacles conform to NFPA/T3.5.29 R1 - 2007 used with single solenoid valve. 26 mm [1"] Wrench

1	Ground Lead (Green)
2	Lead to Solenoid
3	Lead to Solenoid



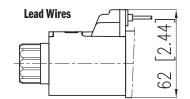
VSD08M / VPD08M

ELECTRICAL:

Dimensions mm [in]

PILOT VALVE - CONNECTION BOX SOLENOIDS

This is a two pin solenoid which connects to the circuit board. Wiring is done on the terminal strip inside the box.



BOX CONNECTION CODE	VOLTAGE & FREQ. [VOLT - HERTZ]	VOLTAGE LIMITS [MIN - MAX]	RESISTANCE ±10% [OHM]	INRUSH CURRENT [A]	HOLDING CURRENT [A]	HOLDING POWER [W]	REPLACEMENT
60	120 -60 110 - 50	108 - 126 99 - 116	35.7	1.35 1.41	0.46 0.53	22 23	1012953AD
61	240 -60 120 - 50	216 - 252 198 - 231	146.4	0.61 0.71	0.23 0.26	22 23	1012953AC
68	120 -60 110 - 50	108 - 132 99 - 121	75.8	0.72 0.74	0.22 0.24	10 10	1012953AB
70	24 V DC	21 - 26	19.2	1.25	1.25	30	1012957AC
75	12 V	10 - 13	4.8	2.5	2.5	30	1012957AB

WASHDOWN OPTION (CODE WD)

The wash-down option with the electrical box is designed for an IP65 rating. This option uses a special cover without the mounting bolt access holes and uses silicone sealant to help seal between the coil and core tube.

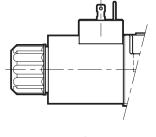
The DIN, Deutsch and lead wire coils versions of the wash-down option uses silicone sealant to help seal between the coil and core tube.

PILOT VALVE - CONNECTIONS: DIN / DEUTSCH

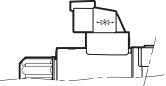
See Connectors and Cable Sets Catalog (1027453) for all available connection styles.

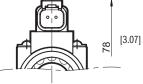
Connection for EN 175301-803 (ex DIN 43650) connector code WK1 (DC voltage version only)

Connection for DEUTSCH DT06-2S male connector code WK7 code WK7D (with diode)









ELECTRICAL CONNECTORS

Solenoid operated valves are delivered without connectors. Connectors type EN 175301-803 (ex DIN 43650) for K1 connections can be ordered separately. See: Connectors and Cables sets catalog.



VSD08M / VPD08M

► ELECTRICAL: PILOT VALVE

Protection from atmospheric agents IEC 60529

The IP protection degree is guaranteed only with both valve and connectors of an equivalent IP degree, correctly connected and installed.

Electric Connection Code	Electric Connection Protection	Whole Valve Protection		
K1	IP65	IP65		
WK1	IP66	IP66		
WK7	IP66/IP68/IP69 IP69K*	IP66/IP68/IP69 IP69K*		
WK7D	IP66/IP68/IP69 IP69K*	IP66/IP68/IP69 IP69K*		

^(*) The IP69K protection degree is not taken in account in IEC 60529 but is included in ISO 20653.

Current and absorbed power for DC solenoid valves

The coils WK feature a zinc-nickel surface treatment.

The WK7D coil includes a bi-directional diode for protection from voltage peaks during switching. During the switching the diode significantly reduces the energy released by the winding, but limiting the voltage to 31.4 V in the D12 coil and to 58.9 V in the D24 coil.

Using connectors type "D" (VEA-6FR) with embedded bridge rectifier it is possible to feed DC coils (starting from 48V voltage) with alternating current (50 or 60 Hz), considering a reduction of the operating limits (see page 6).

Code	Nominal Voltage [V]	Resistance at 20 °C [Ω]	Current Consumption [A]	Power Consumption [W]	Replacment Coil Code	
D12WK1	12	4.4	2.72	32.7	M3984000001	
D12WK7	12	4.4	2.72	32.7	M3984000101	
D12WK7D	12	4.4	2.72	32.7	M3984000111	
D14K1	14	7.2	1.93	27	M1903086	
D24WK1	24	18.6	1.29	31	M3984000002	
D24WK7	24	18.6	1.29	31	M3984000102	
D24WK7D	24	18.6	1.29	31	M3984000112	
D28K1	28	26	1.11	31	M1903082	
D48K1	48	78.6	0.61	29.5	M1903083	
D110K1	110	423	0.26	28.2	M1903464	
D125K1	125	550	0.23	28.6	M1903467	
D220K1	220	1692	0.13	28.2	M1903465	

Current and absorbed power for AC solenoid valve

The table shows current and power consumption values at inrush and at holding, for AC coils.

Coils for alternating current (values ± 5%).

Suffix	Nominal voltage [V]	Freq.	Resistance at 20 °C [Ω]	Current consumption at inrush [A]	Current consumption at holding [A]	Power consumption at inrush [VA]	Power consumption at holding [VA]	Coil code [K1]	
A24K1	24	F0	1,69	5,81	1,32	139	32	M1902830	
A48K1	48	50	6,02	3,78	0,86	182	41	M1902831	
A110K1	120V-60Hz	110V-50Hz		33	1,76	0,40	194	44	M1902832
ATTUKT		E0/60	33	1,54	0,35	185	42	W11902032	
A230K1	230V-50Hz	230V-50Hz 240V-60Hz	135	0,92	0,21	213	48	M1902833	
AZSUKI	240V-60Hz		133	0,79	0,18	190	43	W1302833	



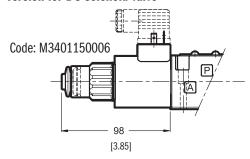
VSD08M / VPD08M

MANUAL OVERRIDES: PILOT VALVE

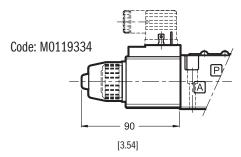
Dimensions mm [in]

Manual override, boot protected

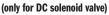
U - Version for DC solenoid valve

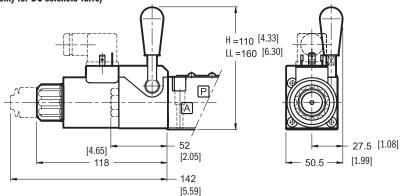


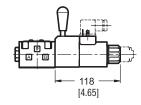
U - Version for AC solenoid valve



H Lever manual override





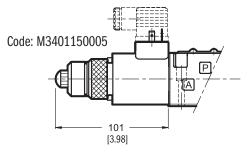


NOTES: the CH device is located on the A side of the valve, with the exception of the valves type VS6M-*R.

Not available on function code 6 valves.

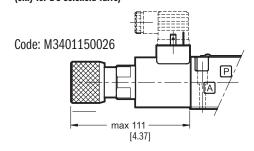
CP Push manual override

(only for DC solenoid valve)



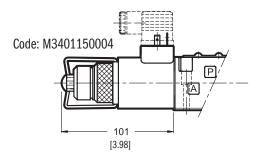
CK1 knob manual override, turning

(only for DC solenoid valve)



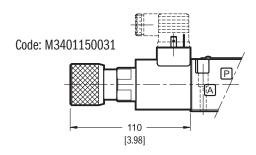
CPK Push manual override with mechanical retention

(only for DC solenoid valve)



CK2 and twist manual override

(only for DC solenoid valve)



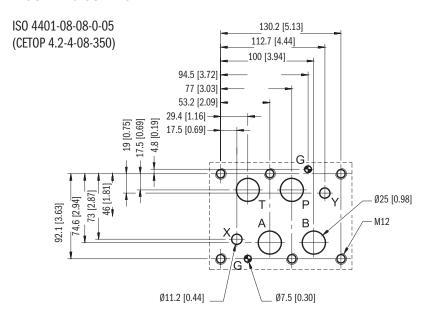


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► MOUNTING:

Dimensions inch [mm]

MOUNTING SURFACE





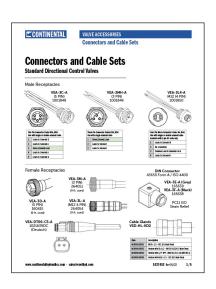


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