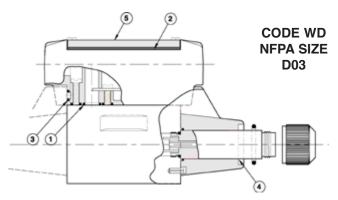
WASH DOWN OPTION VALVES

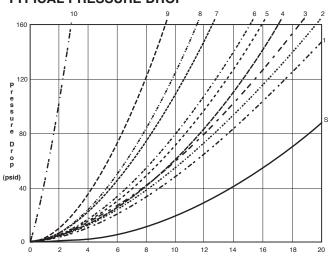
SOLENOID ACTUATED, DIRECT OPERATING



DESCRIPTION

Wash down option with electrical box, rated for IP65. Tested by CSA. The hose down test consisted spraying the valve and enclosure with 45 to 65 GPM of water from a 25mm nozzle for 5 minutes. The water

TYPICAL PRESSURE DROP



FLOW PATH AP CURVES

Spool	Flow Curve Number						
Code	Sp	Spool Shifted			Spo	red	
	P to A	B to T	P to B		P to A or B		
Α	5	4	5	4			
A Code 1 & 2	2	2	2	2			
В	2	1	2	1	3	3	4
B Code 1 & 2	2	1	2	1	3	3	4
E	5	2	5	4		8	
F	5	1	5	1		7	
F Code 68	8	1	8	1		7	
F1	5	4	5	4		10	
G	2	5	2	5	5		
Н	2	6	5	2			5
J	5	5	3	5	9		
K	5	4	5	2		8	
L	3	5	3	5			8
N	3	5	5	5	9		
Q	5	2	2	6			5
Subplate					S (Full Ci	rcuit)	

stream was directed at the enclosure seams from a distance of 3 meters and moved along the joints or surface at a minimum rate of 6mm/s or 1.65in/s. The main changes to the standard D03 valve include:

- 1. Addition of o-rings to seal the mounting bolt access holes between the electrical box and valve body.
- 2. Thicker cover gasket made of 40D nitrile to protect against direct spray. The softer material compresses more to provide a tighter seal.
- 3. .093" Thick gaskets made of 50D nitrile to seal the solenoid pins where they pass through the electrical box. Added compression provides better protection from direct spray. These replace the standard o-rings.
- 4. RTV sealant added around core tube area.
- 5. Solid Anodized Aluminum Cover (no bolt access holes) replaces the standard plastic cover for better sealing and chemical resistance.

TYPICAL PERFORMANCE SPECIFICATION

Performance is measured on a four-way circuit (full circuit). Performance may be reduced from that shown if a three-way circuit (half circuit) is used, i.e. A or B port plugged.

A or B port plaggoa.							
Maximum I	Flow Rate	See Chart					
Maximum Operating Pressure	P, A, B Ports	5000 psi	345 bar				
	T (Standard)	3000 psi	207 bar				
Maximum	AC Solenoids	400 cpm					
Cycle Rate	DC Solenoids	300 cpm					
Mounting Surface ANSI/B93.7M-1986 D03 ISO 4401 Size 03							
Weight	Single Actuator	3.2 lbs.	1.45 kg				
	Double Actuator	3.9 lbs	1.77 kg				
Spool Codes Available A,B,E,F,F1,G,H,J,K,L,N,Q							

All pressure drops shown on this page are based on 100 SUS fluid viscosity, and 0.87 specific gravity. See the chart below for other viscosities.

Fluid	CS	14.5	20.5	32	43	54	65	76	86
Viscosities	SUS	75	100	150	200	250	300	350	400
Multiplier		0.93	1.00	1.11	1.19	1.26	1.32	1.37	1.41

For any other specific gravity (G_1) , the pressure drop (ΔP) will be approximately $\Delta P_1 = \Delta P$ (G_1) .

WASH DOWN OPTION VALVES

SOLENOID ACTUATED, DIRECT OPERATING



SPOOL DESCRIPTION

CODE	SYMBOL	SPOOL FUNCTION	CENTER POSITION	CROSSOVER
A			All ports blocked	All ports blocked
В	XHIII	XHHHH	All ports open	All ports open
E			P & A blocked B to T	All ports blocked, or P & A blocked
F			P blocked A & B to T	B to T P blocked A or B to T
F1			P blocked A & B restricted to T	P blocked A or B restricted to T
G			P to A & B T blocked	P to A or B T & A or B
н			P to A & T B blocked	blocked All ports open
J			P to B A & T blocked	All ports blocked, or P to B,
K			P & B blocked A to T	A & T blocked All ports blocked, or P & B blocked,
L			P to T A & B blocked	A to T All ports open, restricted
N			P to A B & T blocked	All ports blocked, or P to A, B & T blocked
Q			P to B & T A blocked	All ports open

EXCLUSIVE 3 YEAR WARRANTY

Continental Hydraulics Division warrants all hydraulic directional valves supplied by Continental Hydraulics against defects in materials and workmanship under normal use and service for 3 years from the date code on the valve.

Complete terms and conditions available upon request.

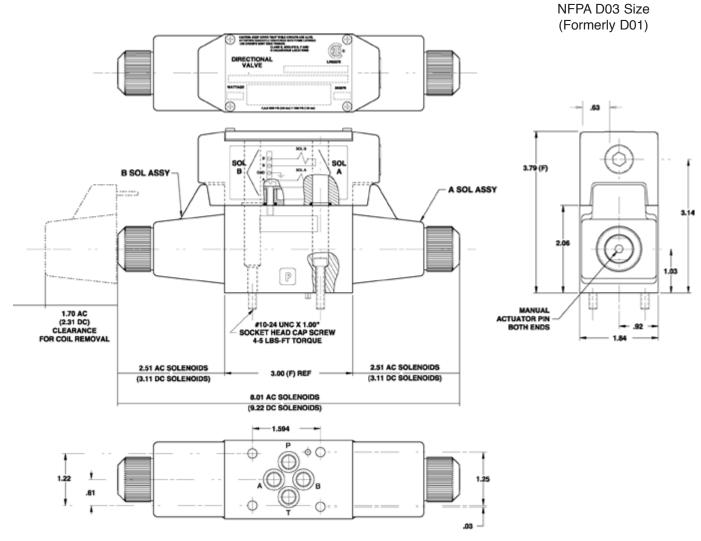


WASH DOWN OPTION VALVES

SOLENOID ACTUATED, DIRECT OPERATING

TYPICAL ELECTRICAL INFORMATION

SOLENOID CODE		VOLTAGE & FREQUENCY	VOLTAGE LIMITS	RESISTANCE ±10%	INRUSH CURRENT	HOLDING CURRENT	HOLDING POWER
LEAD WIRE	DIN CONN.	VOLTS - Hz.	MIN - MAX	онмѕ	(AMPS)	(AMPS)	(WATTS)
		120 - 60	108 - 126	00.5	0.10	.40	21
60L	33L	110 - 50	99 - 116	36.5	2.10	.43	21
		120 - 60	108 - 132	75.0	1.10	.18	10
68L		110 - 50	99 - 121	75.0	1.10	.20	9.5
041	0.41	240 - 60	216 - 252	145.0	1.10	.21	22
61L	34L	220 - 50	198 - 231	145.0	1.10	.25	22
70L	42L	24 DC	21 - 26	24.0	1.00	1.00	24
75L	44L	12 DC	10 - 13	6.3	2.00	2.00	24



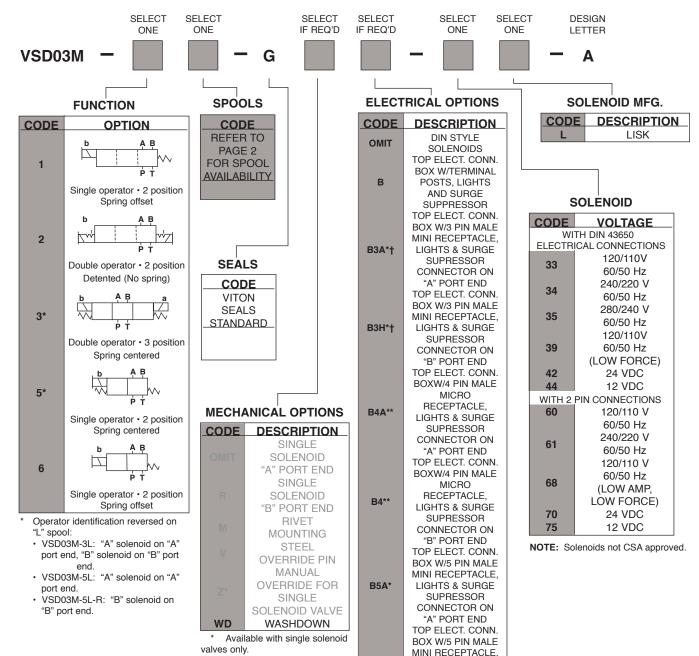
VSD03M DOUBLE SOLENOID

WASH DOWN OPTION VALVES

SOLENOID ACTUATED, DIRECT OPERATING



ORDERING INFORMATION



TYPICAL ORDERING CODE:

VSD03M-3A-G-33L

- Connector conforms to ANSI/B93.55M 1981.
- Available with DC solenoid valves only.

LIGHTS & SURGE SUPRESSOR CONNECTOR ON

"B" PORT END

Available with single solenoid valves only.

Continental Hydraulics 5505 West 123rd Street, Savage, MN 55378 U.S.A. Phone: (952) 895-6400 Fax: (952) 895-6444 www.continentalhydraulics.com

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