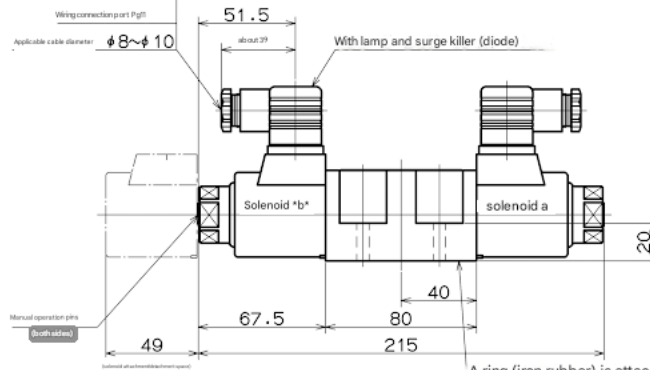
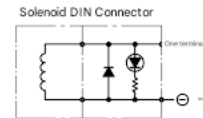


DIN 43650 Connectors

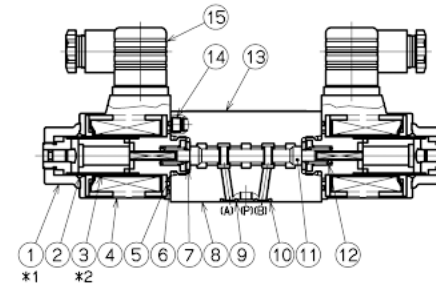
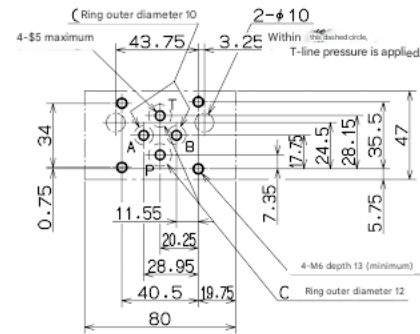


A ring (iron rubber) is attached to the gasket surface.

Solenoid internal wiring diagram



HDG4W-3 Mounting surface dimensions details



Mounting surface machining accuracy

Surface roughness	1.6μm Ra	1.5/
Flatness	0.01 or less (per 100 mm)	0.001/100
Mounting bolt screw hole: ±0.1		
Port hole: ±0.2		

mounting bolt

Please use the following bolts.
Bolt size: M6 x 30 (4 pieces)
JIS B 1176 Hexagonal Socket Head Bolt
Strength classification 12.9
Bolt tightening torque: 12-15N · m

Appendix O-ring List

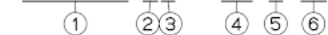
10	40017459	JIS B 2401 P7 U801 (Polyurethane)
9	40017062	JIS B 2401 P9 U801 (Polyurethane rubber Hs92)
6	007902617	AS568-026 NBR, Hs70
		5 007911429 AS568-114 FKM, Hs90
2	008001817	JIS B 2401-1A-P20
Part number	Specification	

12	13 Internal leak amount (68.6MPa)	Within 1L/min
	time rating	within
	surge killer	Built-in diode
	Holding power (at 24V)	28W
	Holding current (at 24V)	1.16A
	Allowable voltage range	21.6~26.4V
	Rated voltage	DC24V
	Spring return 45ms	
	11 switching time	35ms
	10 Vibration resistance	JIS D 1601, 3 types, stage 70
11	9 Water resistance	JIS C 0920 IPX5 suitable
	8 Operating temperature range	-20~70° C
	7 Viscosity range of hydraulic oil	Optimum value: 13~54mm ² /s Tolerance: 13~400mm ² /s
	6 Hydraulic oil temperature range	10~80° C
	5 Filtration	25μm (absolute)
	4 T (tank port) allowable back pressure	20.6MPa
	3 maximum flow	40L/min
	2 Maximum operating pressure (P, A, B ports)	68.6MPa
	1 Mounting surface size	See specification
	number	project

*The number of switching times for this valve is limited to 1 million.

Formal description

HDG4W-3-OC-M-U7-H-13



- 1 Ultra-high pressure solenoid valve
- 2 Spool type (see symbol)
- 3 Spring set type (spring center type (3 positions))
- 4 Electrical wiring method
- 5 DIN connector type (with light and surge killer)
- 6 Solenoid power supply voltage
- 7 Design Number

Note 1. Tightening torque *11 Nut: 9~11N · m

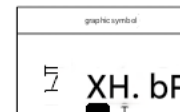
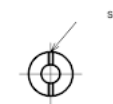
*2 3 Solenoid core assembly: 18~22N · m

2. 7 Install the centering washer with the slit facing the body side (both sides).

3.11 The spool is symmetrical.

4.50 ring is 3 solenoid core assembly 6 O ring is

4 Included in the solenoid coil assembly.



15 Connector	40028388	2
14 plug	VP113000	3
13 Nameplate	40027480	1
12 spring	40017452	2
11 spool	40020289	1
10 O-ring	See attached table 4	
9 O-ring	See attached table 2	
8 body	40027476	1
7 Centering washer	VA29358	2
6 O-ring	See Appendix (2)	
5 O-ring	See Appendix (2)	
4 Solenoid coil assembly	40078315	2
3 Solenoid core assembly	40078259	2
2 O-rings	See attached table 2	
1 nut	40030600	2
Part Name	Part Number	Quantity

Ultra-high pressure solenoid switching valve

for Giken Seisakusho Co., Ltd.

HDG4W-3-OC-M-U7-H-13

DATE 2004-07-12 SIZE C

DRAWING NO. 429760010 SHEET 1/1

TOKIMEC TOKIMEC INC.