

SOLENOID VALE SPECIFICATIONS / ORDERING GUIDE

Madal Na	2 - WAY		3 - WAY				4 - WAY			
Model No.	M30 M31R.T	301 301R.T	MOOU	MOODU	M50 M51R.T	M55 M55R.T	M15G	M15DG	M80 M81R.T	65G. 65DG
Pipe Size	1/2~2	2-2/1~3	1/8~3/8	1/8~3/8	1/4,3/8	3/8~1-1/4	1/4,3/8	1/4,3/8	1/4,3/8	1/2~1-1/4
Screwed Connection			•	۲	•	•	۲		۲	•
Flanged Connection	•									
Normally Closed	۲		•	•	۲	•	۲	•		•
Normally Open	۲	•	•	•	•	0		۲	0	0
Multi - Purpose			•	۲						
Water - tight Construction	•	•	•	•	•	•	•	•	•	•
Explosion - proof Construction	•	٠	•	•	•	•	•	•	•	•
Operating method	Direct	Direct	Direct	Direct	Direct	Pilot	Pilot	Pilot	Direct	Pilot
Min. Operating Pressure MPa	0	0	0	0	0	0.12	0.1	0.1	0	0.12
Max. Operating Pressure MPa	1(1/2~1) 3(1-1/2~2)	1	0.7	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Media		Oil, Air, hemicals	Air	Air	Air	Air	Air	Air	Air	Air
Electric Current	AC,DC	AC,DC	AC,DC	AC,DC	AC,DC	AC,DC	AC,DC	AC,DC	AC,DC	AC,DC
Solenoid Energized Continuously	•	•	•	•	•	•	•	٠	•	•
Solenoid Energized One pulse					•			•		
Body Materials	CAC,SCS	CAC,FC,SCS	AL	AL	CAC	CAC	AL	AL	AL	AL
Manual Operation	۲			Option	•	•	۲	Option	٠	 /Option

Indicates Valves Constructions Available

LIQUID LEVEL GAUGE SPECIFICATIONS / ORDERING GUIDE

	Tubular Gauge			Reflex Gauge				Transparent Gauge				
Model No.	Marine Gauge	See Gau	e-tru uge	#133 Gauge	R-N20	R-30	R-50	RC-S30	T-N20	T-30	T-50	TC-S30
Pipe Size	G3/4	3,	/4	1/2~1	1/2~1	1/2~1	1/2~1	1/2~2	1/2~1	1/2~1	1/2~1	1/2~2
Screwed Connection	•	۲		•	•	•			•	•	۲	
Flanged Connection			•	•	٠	•	•				۲	•
No. of Section					8	8	5	6	8	8	5	6
Gauge Valve Type	Quick Mount	and the second se		#4(-50~+210) Off-set			#4Y(-100~+400) Off-set		#4LBY(-200~+400) Off-set			
Drain Valve				•	•	•	•	•	•	•	•	•
Drain Connection		ſ	2	R	R	R	R	R	R	R	R	R
Max. MPa Working Pressure	Atmos- phere	1	2	2	5	7.5	10	5	5	7.5	10	5
Max. Temperature °C	80	80	150	150	400	350	350	210	400	400	400	210
Min. Temperature °C	Atmos- phere				-100	-100	- 100	-200	-100	-100	-100	-200
Liquid Madia	W,O	W,O	W,O	W,O	Liquid and Gases					•		
Valve body, Liquid Chamber Materials	BR	BR	SS	CS,SS	CS,SS	CS,SS	CS,SS	SS	CS,SS	CS,SS	CS,SS	SS
Center to Center Max.	1,000	1,5	00	1,500	3,030	1,845	1,845	2,320	3,030	1,845	1,845	2,320

Remark W : Water. O : Oil. C : Chemicals. SS : Stainless Steel. BC : Bronze. FC : Cast-iron. AL : Aluminum. CS : Carbon Steel. BR : Brass Indicates Valves Constructions Available

KANEKO'S SOLENOID VALE MODEL NO.

M30	C 25 A44 B S 1 1	MOO	D 6 A 12P RS M 01
	Trim 1: AL- Bronz Inside, const. 1: For 2: For high temp. or h Pipe connect. (Valve end Valve body materials. B: Bron Solenoid const. 44: pule type. A: AE: AC. Exp. proof. D: DC Water- Valve size (15:1/2,20:3/4,25:1,32:1-1/4,40:1-1/2,50:2) (Function C: Normally closed. D: Normally M30, #301, 2-Way solenoid Valve	general purpose. nevy oil. 5: Chemicals. Steam Is) S: Screwed. F: Flanged nze S: SCS. F: Cast-iron AC. Wate -tight tight. DE: DC. Exp-proof M30Series). (65:2-1/2,80:3) (#301 Series) open	Orifice dia 3.0 (standard 1.6) only Moo Series Manual operate button (Option) Dual coil of Latching sol. (Single SOL. With out RS Solenoid model for push type sol. Solenoid const. A: AC, D: DC. Water tight AE: AC. DE: DC. Explosion-proof Valve size 6:1/8, 8:1/4, 10: 3/8,15: 1/2, 20: 3/4, 25: 1 Function D: 2Way dual coil, DU: 3-Way dual, coil, DC: 4-Way dual coil (ON-OFF Single solenoid with out D) 00: 2-Way, MOOU: 3-Way. M156: 4-Way Single Sol. M15D6: 4-Way dual Sol
2 - ¥4Y	$ \begin{array}{c} A44 - 23 - 45 \\ AE44 - 23 - 45 \\ AE44 - 23 - 45 \\ D44 - 23 - 45 \\ DE44 - 23 - 45 \\ DE44 - 23 - 45 \\ DE44 - 23 - 45 \\ AE66 - 23 - 45 \\ DE66 - 23 - 45 \\ DE44 - 23 - 45 \\ $	M30C: M30 Series Normally Clo M30D: M30 Series Normally Op M35C: For Water Normally Op M35C: For Water Normally Clos and Cast iron Body Onl; A44, A66: AC. Water-tight Sol AE44, AE66: AC. Explosion-pro D44, D66: DC. Water-tight Sol DE44, DE66: DC. Explosion-pro Manual Reset Valves No voltage release M31RC: Latched Closed V M31RD: Latched Open Val Electrically tripped M31TC: Latched Closed V	adve 2 Valve body materials y B: Bronze Sof Sol F: Cast iron 3 Pipe connection (Valve ends) sof Sol S: Screwed F: Flanged 4 Valve construction 1: For general purpose alve 2: For high temperature or ye 5: Steam, chemicals
3	301T C 1 − D66 −23 −45 D DE66−23 −45 D DE66−23 −45 A12PG −6 AE12PU −6 F 10 D12PG −6 F 10 DE12PU −6 * in case NPT connection MOOU-8N-A12PG Please enter N	M31 TD : Latched Open Val	ve 2: Stainless steel 6 Orifice dia. 01: 3.0 Manual Operate button 6 A12PG, A12PRS: AC. (Water tight)
- SAY	$\begin{array}{c} C \\ M50 \\ E \\ F \\ M55 \\ C \\ E \\ F \\ M55 \\ C \\ E \\ M55 \\ E \\ E \\ C \\ C$	M51-R-D-8-7 F-10-E-10-E F-10-E-10-E M55-R	A1AI: AC. (For out doors) Water tightAE1AE1: AC. Explosion-proofD11D11: DC. (For out doors) Water tightDE11DE11: DC. Explosion-proofA1C: Normally ClosedAE1D: Normally OpenD11E: Two-Outlet, One-ExhaustDE11F<: One-Outlet, Two-Exhaust
4 W	M15G-8 M15G-10 M15G	M15DG-8-6 10-7 0E12PRS-6 DE12PRS-6 DE12PRS-6	M15G, M65G: Single Solenoid
A Y	6 A1 M80-8-D11 10 DE11	M81-R T 10 M81-R T 8 - A1 AE1 D11 DE11	10 A12PRS-M 15 AE12PRS-M M65D-G-20 D12PRS-M 25 D12PRS-M 25 DE12PRS-M

PNEUMATIC 3&4-WAY SOLENOID VALVES



MOOU SERIES Mini 3-Way M00U Series Size: 1/8" .1/4" and 3/8" For outdoors **Explosion-proof** $0 \sim 0.4 \text{MPa}$ (orifice $\phi 3.0$) Electricity: AC, DC Continuous Solenoid Enclosure Two types are available: (1) Watertight (for outdoors) (2) Explosion-proof Model d2G4 Body Materials: Aluminum Alloy Function: Solenoid direct acting (1) Normally closed (2) Normally open (3) Two outlets, one exhaust (4) One outlet, two exhausts With manually operated button (Patented) Mini 4-Way M15G Series Class of Coil Insulation: H For outdoors Explosion-proof Explosion-proof terminal box is revolved 340° for wiring and piping construction M15G SERIES Size: 1/4" and 3/8" Working Pressure: 0.1~0.99MPa • Cv Factor: 0.87 (orifice $\phi 6$) Electricity: AC, DC Continuous Solenoid Enclosure Two types are available: (1) Watertight (for outdoors) (2) Explosion-proof Model d2G4 Body Materials: Aluminum Alloy Function: Pilot operated 4-way 4-Way M65G Series 2 position 5 ports For outdoors Explosion-proof Others are identical to MOOU Series. M65G SERIES Size: 3/8", 1/2", 3/4", and 1-1/4" Working Pressure: 0.1~0.9MPa Cv Factor: 2.0, 2.5(3/8", 1/2" orifice φ 12.2) 5.0 (3/4" orifice φ 19) 12.0 (1", 1-1/4" orifice φ 31.8) Head: M15G Series Solenoid with Pilot valve M15GA (D) E22P SERIES Explosion-proof for Hydrogenous Atmosphere Size: 1/8", 1/4" and 3/8" 4 Way M15GE22P Series 3 Way M00UE22P Series Solenoid Enclosure: Explosion-proof for hydrogenous atmosphere of Model d3aG4 Others are identical to MOOU Series.



3&4-WAY DOUBLE LATCH SOLENOID VALVES



MOODU SERIES

Using the double latch option, the valve is operated by means of a permanent magnet latch circuit that can be controlled by a momentary current pulse of fifty milliseconds. Continuous current may be used if desired, but continuous current flow is not necessary.

- Size: 1/8" ,1/4" and 3/8"
- Working Pressure: 0~0.99MPa
- Option: Manually operated button
- Others are identical to MOOU Series
- Solenoid Enclosure Two types are available:
 - (1) Watertight (for outdoors)
 - (2) Explosion-proof Model d2G4 Approved by JLM
- Others are identical to MOOU Series

M15DG SERIES

- Size: 1/4" and 3/8"
- Working Pressure: 0.1~0.99MPa
- Electricity: AC, DC 500 msec., pulse operated
- Option: Manually operated button (Patented)
- Explosion-proof terminal box is revolved 300° for available to wiring and piping construction
- Others are identical to M15G Series

M65DG SERIES

- Size: 3/8", 1/2", 3/4", 1" and 1-1/4"
- Working Pressure: 0.1~0.9MPa
- Electricity: AC, DC 500 msec., pulse operated
- Head: M15DG Series Solenoid with pilot valve
- Body Material: Aluminum die cast
- Others are identical to M15DG and M65G Series

2-WAY SOLENOID VALVES FOR VARIOUS FLUID



M30 SERIES

- Size: 1/2" ~1" (Screwed) 1/2" ~ 2" (Flanged)
 Working Pressure: Max.3MPa(1/2" ~1") Max.1MPa(1-1/2" ~2")
- Electricity: AC, DC
- Solenoid Enclosure Two types are available:
 - (1) Watertight (for outdoors)
 - (2) Explosion-proof Model d2G4
 - Approved by JLM
- Pipe Connection: Screwed or flanged
- Body Materials: Bronze, stainless steel & cast iron
- Media: Air, gas, water, steam (200°C) and chemicals
- Function: Normally closed and open

Size and Cv Factor

				1-1/4		
Cv Factor	4.2	8.4	10.5	14.1	28.7	48.5



M30 Series Explosion-proof



#301 SERIES

- Size: 2-1/2" ~3"
- Working Pressure: 0~1MPa
- Electricity: AC, DC
- Explosion-proof Model d2G4 Approved by JLM
- Pipe Connection: Flanged
- Body Materials: Bronze, stainless steel and cast iron
- Media: Air, gas, water, oil and steam (200°C)
- Function: Normally closed and open
- The others refer to page 1

TYPE 5282 SERIES

- Size: 1/2", 3/4", 1", 1-1/4", 1-1/2" & 2"
- Working Pressure: 0.05~1MPa
- Electricity: AC, DC
- Explosion-proof (Type & Class) EExed I CT5 (PTB) Exed I CT5 (JAPAN)
- Pilot operated, Flapper type Actuator and Diaphragm sealing construction
- Boby Materials:Brass,Stainless Steel







MANUAL RESET VALVES FOR EMERGENCY



M31R, T SERIES

- Size: 1/2" ~ 2"
- Working Pressure: 0~3MPa (1/2"~1")
 - 0∼1MPa(1-1/2"~2")
- Electricity: AC, DC
- Solenoid Enclosure Two types are available:
 (1) Watertight (for outdoors)
- (2) Explosion-proof Model d2G4 Approved by JLM
- Pipe Connection: Screwed and flanged
- Body Materials: Bronze and stainless steel
- Functions: No voltage release or Electrically tripped

M301R, T SERIES

- Size: 2-1/2" ~4"
- Working Pressure: 0~1MPa
- Pipe Connection: Flanged
- Body Materials: Bronze, cast iron and stainless steel

C51T, C SERIES EXPLOSION-PROOF FOR HYDROGEN

- Size: 1/8", 1/4 & 3/8 "
- Working Pressure: 0.1~0.99MPa
- Electricity: AC, DC
- Pilot operated 3-way type and Electrically tripped

M55R, T SERIES 3-WAY AIR ONLY

- Size: 3/8" ~1-1/4"
- Working Pressure: 0.12~0.99MPa
- Electricity: AC, DC
- Pilot operated 3-way normally closed and open
- Body Materials: Bronze
- Head: M81R or M81T Series Solenoid with Pilot valve

M81RG, TG SERIES 4-WAY AIR ONLY

- Size: 1/4" and 3/8"
- Working Pressure: 0~0.99MPa
- Direct operated 2 position
- Explpsion-proof Model d2G4
- Electricity: AC, DC
- Materials: Aluminum alloy body

C81RG, TG SERIES 4-WAY AIR ONLY

- 4-way pneumatic direction control
- Pneumatic lock, pressure-reset manual system
- Size: 1/4" and 3/8"
- Working Pressure: 0~0.99MPa
- Signal Pressure: 0.1~0.99MPa
- Materials: Aluminum alloy body and pilot valve housing,

BELLOFRAM 4-WAY VALVE AIR ONLY

- Size: 1/4" and 3/8"
- Working Pressure: 0~0.99MPa
- Signal Pressure: 0.1~0.99MPa (Note) Belloframe: Belloframe corporation' srubber rolling diaphragms.
- Materials: Aluminum alloy body

BREATHER VALVES, FLAME ARRESTERS



ALL WEATHER DESIGNED BREATHER VALVES AND FLAME ARRESTERS

The breather valve and flame arrester assembly are mounted on the oil storage tank.

- Size: φ80 (3") ~ φ250 (10")
- Set Pressure: Pressure side: +0.25~+0.5KPa Vacuum side: -0.25~-0.5KPa
- Body Materials: Cast iron with stainless steel and plastic trim
- These Breather valves and flame arresters are cold district atmosphere, temperature at minus 10°C to minus 30°C operating tested

STANDARD MODEL

- Size: φ40 (1-1/2") ~ φ250 (10")
- Set Pressure:
 - Pressure side: +0.25~+0.5KPa Vacuum side: -0.25~-0.5KPa
- Pipe Connection: Flanged JIS 10K, ANSI 150 lbs.
- Media: Atmosphere air and oil vapor
- Body Materials: Cast iron, aluminium and stainless steel with bronze and stainless steel trim.

PRESSURE RELIEF VALVES

- Size: φ40 (1-1/2") ~ φ250 (10")
- Set Pressure: +0.25~+0.5KPa
- But may be set at any pressure desired
 Pipe Connection: Flanged JIS 10K, ANSI
- 150 lbs.
 Media: Atmosphere air and oil vapor
- Media: Atmosphere all and on vapor
 Body Materials: Cast iron, aluminium and stainless steel with bronze and stainless steel trim.

VACUUM RELIEF VALVES

- Size: φ40 (1-1/2") ~ φ250 (10")
- Set Pressure: Same as standard model's negative

pressure, but may be set at any pressure desired. (Note) These valve pallets are dead weight located on seat rings. The pressure pallet is lifted from its seat ring. when the tank pressure reaches the valve pressure setting, allowing the excess pressure to be vented to the atmosphere. As the tank pressure drops below the valve pressure setting, the pressure pallet returns to the closed position. For a negative pressure (vacuum), the vacuum pallet is lifted from its seat ring when the tank vacuum reaches the valve vacuum setting, allowing air to flow into the tank to relieve the excess vacuum condition. The vacuum pallet returns to its normal position as the tank vacuum drops below the valve vacuum setting.

GAS SEAL UNIT (For Tank Gas Blanketing)

- Primary Pressure (Supply): 0.1~0.7MPa G.Max.
- Secondary Pressure: 0.1~7KPa (3/8" ×3/4")
- 0.05~7KPa(φ25×φ50)
- Body Material: Stainless steel





Pressure Relief Valve Vacuum Relief Valve



Gas seal unit for Inert gas (N2 gas)





DIRECT READING LIQUID LEVEL GAUGES



REFLEX GAUGE, TRANSPARENT REFLEX, TRANSPARENT GAUGES

- Tank Connection: Screwed, socket weld and
- ●1/2", 3/4" and 1" flanged Shell Test Pressure: 6MPa
- No. of Sections: one to eight sections (R-N20 Series)
- Size No.:

Size No,		Visible Boss			e No.	Visible	Boss		
R	T	Length	Center	R	T	Length	Center		
10000	One S	Section		3x6R	3 x 6 T	915	1125		
1x1R	1 x 1 T	171	385	3x7R	3x7T	975	1185		
1x2R	1 x 2 T	181	395	3x8R	3x8T	1035	1245		
1x3R	1 x 3 T	201	415	15.1	Four S	ections			
1x4R	1 x 4 T	231	445	4x6R	4 x 6 T	1232	1445		
1x5R	1 x 5 T	261	475	4x7R	4x7T	1312	1525		
1x6R	1 x 6 T	281	495	4x8R	4 x 8 T	1392	1605		
1x7R	1 x 7 T	301	515		Five Se	ections			
1 x 8 R	1 x 8 T	321	535	5x6R	5 x 6 T	1549	1760		
	Two Se	ections		5x7R	5x7T	1649	1860		
2x2R	2 x 2 T	398	610	5x8R	5 x 8 T	1749	1960		
2x3R				Six Sections					
2x4R	2 x 4 T	498	710	6x7R	6x7T	1986	2200		
2x5R	2 x 5 T	558	770	6x8R	6 x 8 T	2106	2320		
2x6R				810 Seven Sections					
2x7R	2x7T	638	850	7x7R	7x7T	2323	2535		
2 x 8 R	2 x 8 T	678	890	7 x 8 R	7 x 8 T	2463	2675		
	Three S	ections		Eight Sections					
3x4R	3 x 4 T	765	975	8x7R	8x7T	2660	2870		
3 x 5 R	3 x 5 T	855	1065	8 x 8 R	8 x 8 T	2820	3030		

(Size No.)

Reflex No. of section R - N 203 X 8 Glass No. K

(Note) R = Reflex, T = Transparent

No. 133 TUBULAR GAUGE

- Tank Connection: 3/4" Screwed and flanged
- Visible Length: Boss Center minus 145mm

MARINE GAUGE

- Tank Connection: 3/4" Screwed
- Visible Length: Boss Center minus 120mm

SEETRU GAUGE BRASS BODY

- Tank Connection: 3/4" Screwed
- Visible Length: Boss Center minus 120mm

SEETRU GAUGE STAINLESS STEEEL BODY

- Tank Connection: 3/4" Screwed and flanged
- Visible Length: Boss Center minus 120mm

SEEFLEX MARINE GAUGE **FLAT GLASS TYPE**

Compliant to SOLAS

- Type of Approval
- LR, ABS, DNV, NK, JG

DIRECT READING LIQUID LEVEL GAUGES



DIAL LIQUID LEVEL GAUGES

- Working Pressure: 0.02, 0.5 and 3MPa
- Liquid Temperature: 120° Max.
- Alarm and Control Contact Point: Available assembly max. 4 contact points but without Model: KL-400 Series

FLOAT SWITCH LIQUID LEVEL CONTROLLER

- Test Pressure: 1.5MPa
- Contact point system: Lead switch
- Contact point capacity: 50VA(AC 100V 0.5A) Resistance loading.
- Control range system: Micro-switch lever method.
- Control range: 50 to 1000, 100 to 1500 and 100 to 2000mm

MAGNET FLOAT TYPE LEVEL GAUGE

- Working Pressure: Max 25.0MPa
- Working Temp: 430℃
- Specific Gravity:2~0.3
- Material
 - SUS304 SUS316 SUS316 TITAN PP, PVC

SLIM TYPE MAGNET FLOAT LEVEL GAUGE

- Working Pressure: 3MPa
- Working Temp: 150°C
- Specific Gravity: 2~0.7
- Connection: 20A JIS 10K, 20K 3/4" ANSI 150, 300
- Body Material:SUS304
- Float Material:SUS316L







NEW PRODUCTS









In-Line Flame Arrester



TYPE "me" EXPLOSION PROOF SOLENOID VALVE M15G-MK15G SERIES

- Size: 1/4" and 3/8"
- Compliant to CE marking and ATEX Directive
- Type of Approval
 - CENELEC, JIS, NEPSI, KOSHA
- Explosion proof Class
 EU: I 2G EExme I T6
 JAPAN: Exse I T6
 CHINA: Exme I T4
 KOREA: Exme I T6

INTRINSICALLY SAFETY EXPLOSION PROOF MC15 MK15G SERIES

- Size:1/4" and 3/8"
- Compliant to CE marking and ATEX Directive
- Type of Approval CENELEC, JIS
- Explosion proof Class
 EU: I 1G EExia I BT4
 JAPAN: Exia I BT4

MAGNET FLOAT TYPE LEVEL GAUGE WITH TRANSMITTER 4~20mA

- Enclosure
 - (1) Watertight (for outdoors) IP64
 - (2) Explosion-proof, Exd I B+H2T6 IP66

IN-LINE TYPE FLAME ARRESTER CRIMPED METAL TYPE

- Size: 1/2", 3/4", 1", 1-1/2", 2", 3", 4", 6"
- Type of Approval BAM 02ATEX 0001X
- Compliant to CE marking and EN12874
- Gas Group I A
- In-Line type. Deflagration
- Short time burring



Established in 1918. KANEKO URL: http://www.kaneko.co.jp

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