

SOLENOID VALE SPECIFICATIONS / ORDERING GUIDE

0.4	2-1	VAY		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	•			•	•		•		•		
Flanged Connection	•	•									
Normally Closed	•	•	•	•		•		•	•	•	
Normally Open		•		•		•	•	•		•	
Multi - Purpose				•							
Water - tight Construction	•	•	•	•	•	•	•	•	•	•	
Explosion - proof Construction	•	•	•	•	•	•	•	•	•	•	
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	•	•	•	•	•	•	•	•	•	•	
Solenoid Energized One pulse					•			•			
Body Materials	CAC,SCS	CAC,FC,SCS	AL	AL	CAC	CAC	AL	AL	AL	AL	
Manual Operation	•	•	•	Option	•	•	•	Option	•	Option	

Indicates Valves Constructions Available

LIQUID LEVEL GAUGE SPECIFICATIONS / ORDERING GUIDE

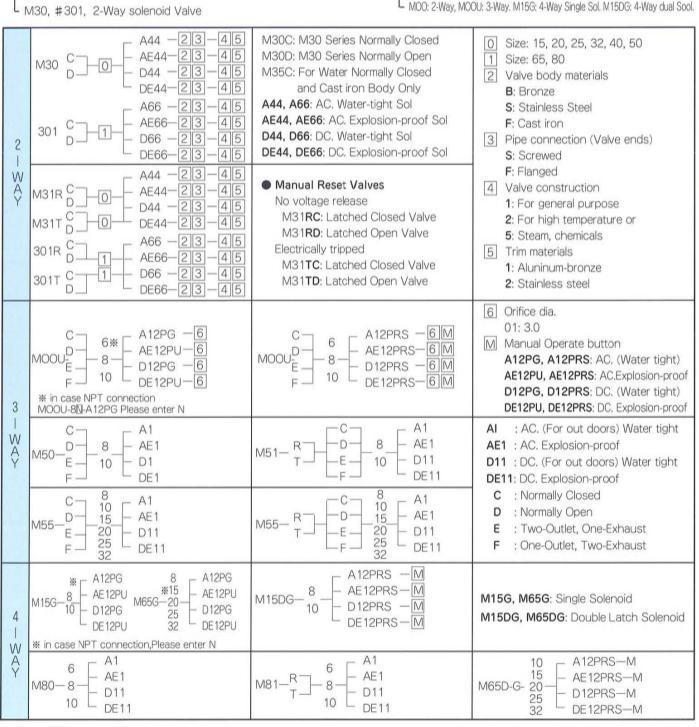
	Tubular Gauge			Reflex Gauge				Transparent Gauge				
Model No.	Marine Gauge	See Gau	e-tru uge	# 133 Gauge	R-N20	R-30	R-50	RC-S30	T-N20	T-30	T-50	TC-S30
Pipe Size	G3/4	3,	/4	1/2~1	1/2~1	1/2~1	1/2~1	1/2~2	1/2~1	1/2~1	1/2~1	1/2~2
Screwed Connection	•	•		•	•					•		
Flanged Connection			•	•	•	•	•	•	•			•
No. of Section					8	8	5	6	8	8	5	6
Gauge Valve Type	Quick Mount	a belancate S		Quick Mount	#4(-50~+210) Off-set			#4Y(-100~+400) Off-set		#4LBY(-200~+400) Off-set		
Drain Valve				•	•	•	•	•	•	•	•	•
Drain Connection		F	3	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 ℃	80	80	150	150	400	350	350	210	400	400	400	210
Min. Temperature ℃	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.





PNEUMATIC 3&4-WAY SOLENOID VALVES



MOOU SERIES

- Size: 1/8", 1/4" and 3/8"
- $0\sim0.4$ MPa (orifice ϕ 3.0)
- Cv Factor: 0.084 (φ 1.6), 0.22 (φ 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)
- Class of Coil Insulation: H
- 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 φ 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 2 position 5 ports
- 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

- Size: 1/8",1/4" and 3/8"
- Solenoid Enclosure:

Explosion-proof for hydrogenous atmosphere of Model d3aG4

Others are identical to MOOU Series









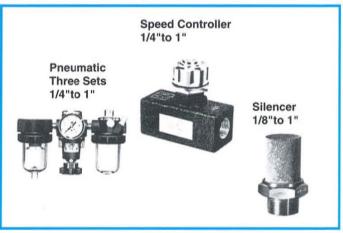


3&4-WAY DOUBLE LATCH SOLENOID VALVES









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℃) and chemicals
- Function: Normally closed and open

Size and Cv Factor

01000100	1 0000					
Size	1/2	3/4	1	1-1/4	1-1/2	2
Cv Factor	4.2	8.4	10.5	14.1	28.7	48.5





#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℃)
- 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

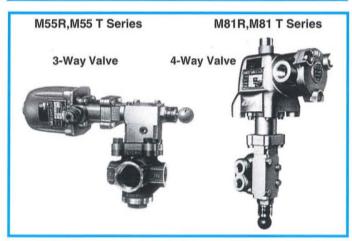




MANUAL RESET VALVES FOR EMERGENCY









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: $\phi 80 (3") \sim \phi 250 (10")$
- Set Pressure:

Pressure side: $+0.25\sim+0.5$ KPa Vacuum side: $-0.25\sim-0.5$ KPa

- Body Materials: Cast iron with stainless steel and plastic trim
- These Breather valves and flame arresters are cold district atmosphere, temperature at minus 10℃ to minus 30℃ operating tested

STANDARD MODEL

- Size: $\phi 40 (1-1/2") \sim \phi 250 (10")$
- Set Pressure:

Pressure side: $+0.25\sim+0.5$ KPa Vacuum side: $-0.25\sim-0.5$ KPa

- 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

- 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
- Body Materials: Cast iron, aluminium and stainless steel with bronze and stainless steel trim.

VACUUM RELIEF VALVES

- Size: $\phi 40 (1-1/2") \sim \phi 250 (10")$
- 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)

- Size: 3/8" × 3/4" (Screwed) and \$\phi25×\$\phi50\$ (Flanged)
- 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



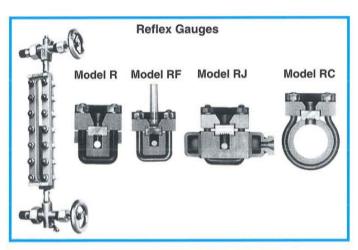


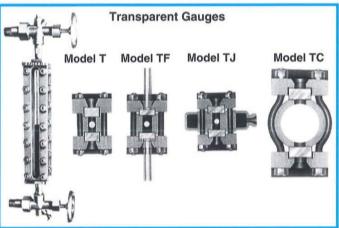


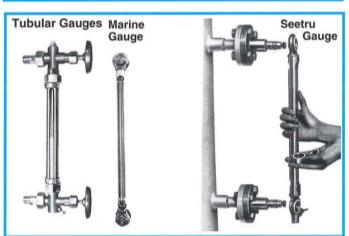




DIRECT READING LIQUID LEVEL GAUGES







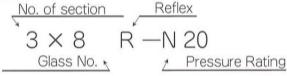


REFLEX GAUGE, TRANSPARENT REFLEX, TRANSPARENT GAUGES

- 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		No.	Visible	Boss			
R	T	Length	Center	R	T	Length	Center			
1000	One S	ection		3 x 6 R	3 x 6 T	915	1125			
1 x 1 R	1 x 1 T	171	385	3 x 7 R	3 x 7 T	975	1185			
1x2R	1×2 T	181	395	3 x 8 R	3 x 8 T	1035	1245			
1 x 3 R	1 x 3 T	201	415		Four S	ections				
1 x 4 R	1 x 4 T	231	445	4 x 6 R	4 x 6 T	1232	1445			
1 x 5 R	1 x 5 T	261	475	4 x 7 R	4 x 7 T	1312	1525			
1x6R	1 x 6 T	281	495	4 x 8 R	4 x 8 T	1392	1605			
1x7R	1 x 7 T	301	515	Five Sections						
1 x 8 R	1 x 8 T	321	535	5 x 6 R	5 x 6 T	1549	1760			
	Two Se	ections		5 x 7 R	5 x 7 T	1649	1860			
2×2R	2 x 2 T	398	610	5 x 8 R	5 x 8 T	1749	1960			
2 x 3 R	2 x 3 T	438	650	Six Sections						
2 x 4 R	2 x 4 T	498	710	6 x 7 R	6 x 7 T	1986	2200			
2x5R	2 x 5 T	558	770	6 x 8 R	6 x 8 T	2106	2320			
2 x 6 R	2 x 6 T	598	810	Seven Sections						
2x7R	2×7T	638	850	7x7R	7 x 7 T	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						
3 x 4 R	3 x 4 T	765	975	8 x 7 R	8 x 7 T	2660	2870			
3 x 5 R	3 x 5 T	855	1065	8 x 8 R	8 x 8 T	2820	3030			

(Size No.)



(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

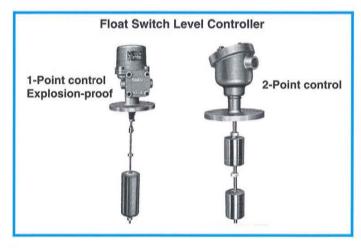
PP, PVC

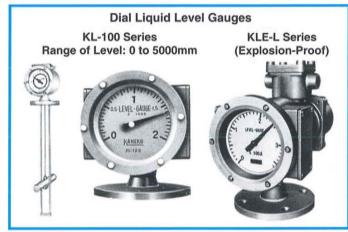
SLIM TYPE MAGNET FLOAT LEVEL GAUGE

- Working Pressure: 3MPa
- Working Temp: 150°CSpecific Gravity: 2~0.7
- Connection: 20A JIS 10K, 20K

3/4" ANSI 150, 300

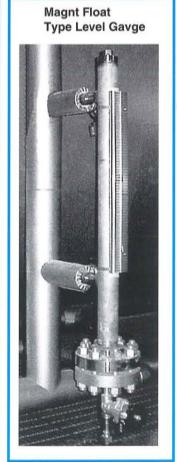
- Body Material:SUS304
- Float Material:SUS316L













NEW PRODUCTS



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 IIS NED

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