

liquid level gauges and valves

simco

simco

QUALITY ENGINEERING FOR QUALITY PERFORMANCE

company profile

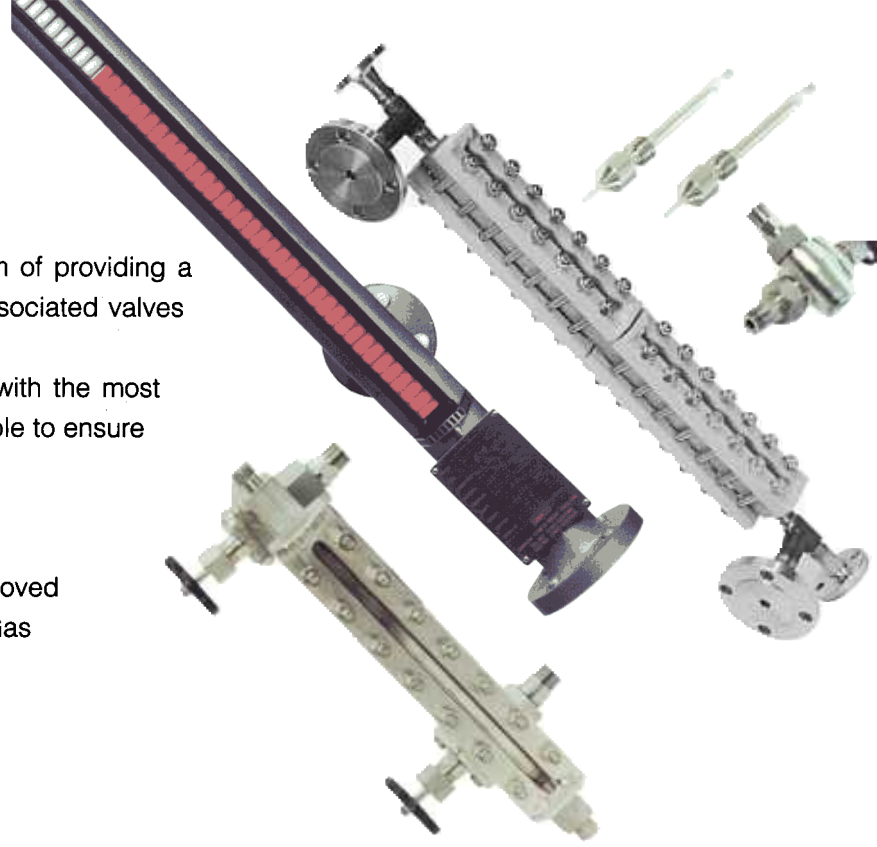
Simco Engineers was founded in 1974 with aim of providing a complete range of Liquid Level Gauges and associated valves for the Oil, Gas and Petrochemical Industries.

We are dedicated to providing our customers with the most reliable and competitively priced product available to ensure customer satisfaction.

approvals

Simco Level Gauges and Valves have been approved and accepted by all the major International Oil, Gas and Petrochemical and Contracting Companies world wide.

Lloyd's Type approval Certification is available.



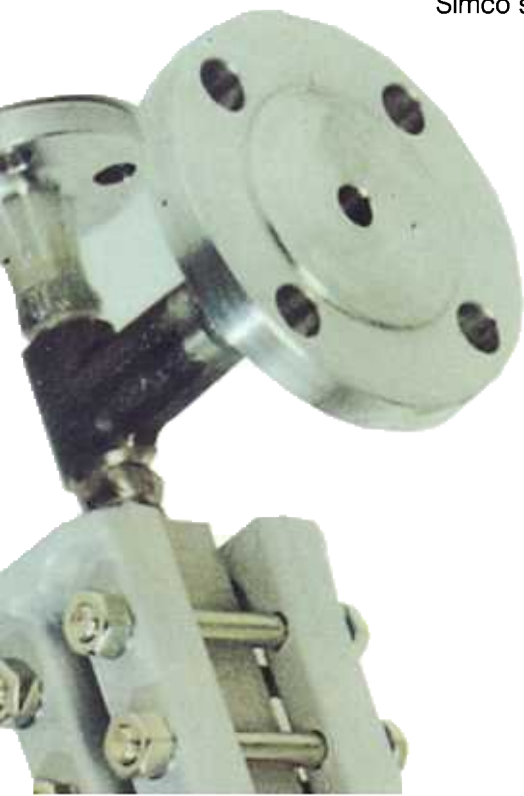
simco

international market

Serving our customers in every continent with the assistance of our appointed agents, Simco supply to over 20 countries world wide, assuring our customers and agents that we can provide them with high quality service and products no matter where they are.

industries served

OIL GAS AND PETROCHEMICAL,
OFFSHORE AND ONSHORE DEVELOPMENTS,
POLYMERS AND CHEMICALS
REFRIDGERATION



simco level gauge selector

Each gauge model is available in different glass lengths or sizes. The maximum pressure the gauge can withstand is determined by several factors including glass size. As the size increases, the maximum pressure permissible decreases. The pressure rating for each gauge model is given in the tables listed below. The smallest glass size available in that model corresponds to the highest pressure - the largest glass size corresponds to the lowest pressure.

Key to sizes e.g. 27-R-1000 interpreted as:-

2 (2 sections) **7** (No.7 glass size) **R** (Reflex) **1000** (Pressure group)

MINIMUM CENTRE TO CENTRE DIMENSION													
END CONNECTED				SIDE CONNECTED			END CONNECTED				SIDE CONNECTED		
Size no.	Visible length	Valve types 23, 26 13, 16	Valve types 24, 27 14, 17	Valve types 23, 24 13, 14	Offset inside Valve types 26, 27 16, 17	Offset outside Valve types 26, 27 16, 17	Size no.	Visible length	Valve types 23, 26 13, 16	Valve types 24, 27 14, 17	Valve types 23, 24 13, 14	Offset inside Valve types 26, 27 16, 17	Offset outside Valve types 26, 27 16, 17
11	95	222	282	133	89	178	37	861	988	1048	899	855	944
12	121	248	308	159	114	203	38	985	1112	1172	1023	979	1068
13	146	273	333	184	140	228	39	1042	1169	1229	1080	1036	1125
14	171	298	358	210	165	253	47	1162	1289	1349	1200	1156	1245
15	200	327	387	238	194	282	48	1326	1453	1513	1364	1320	1409
16	231	359	416	270	225	314	49	1403	1530	1590	1441	1397	1486
17	281	387	447	296	254	343	57	1462	1589	1649	1500	1456	1545
18	302	429	489	340	296	385	58	1668	1795	1855	1706	1662	1751
19	321	448	508	359	315	404	59	1763	1890	1950	1801	1757	1846
23	332	459	519	370	326	415	68	2010	2137	2197	2048	2004	2093
24	382	510	570	421	377	466	69	2124	2251	2311	2162	2118	2207
25	440	567	627	478	434	523	78	2351	2478	2538	2389	2345	2434
26	502	631	691	542	498	587	79	2485	2612	2672	2523	2479	2568
27	561	688	748	599	555	644	88	2693	2820	2880	2731	2687	2776
28	643	770	830	681	637	726	89	2846	2973	3033	2884	2840	2929
29	681	808	868	719	675	764	98	3034	3161	3221	3072	3028	3117
36	775	902	962	813	769	858	99	3206	3333	3393	3244	3200	3289

- Note:
1. TL-500 & RL-500 end connected add 25mm to figures
 2. T-1000 and R-1000 with 3/4NPT end connectors add 12mm to figures
 3. T-2000 end connected add 40mm to figures
 4. R-2000 end connected add 12mm to figures
 5. T-1000 & T-2000 back connected add 40mm to figures
 6. For 3/4 side or back connected add 10mm to length

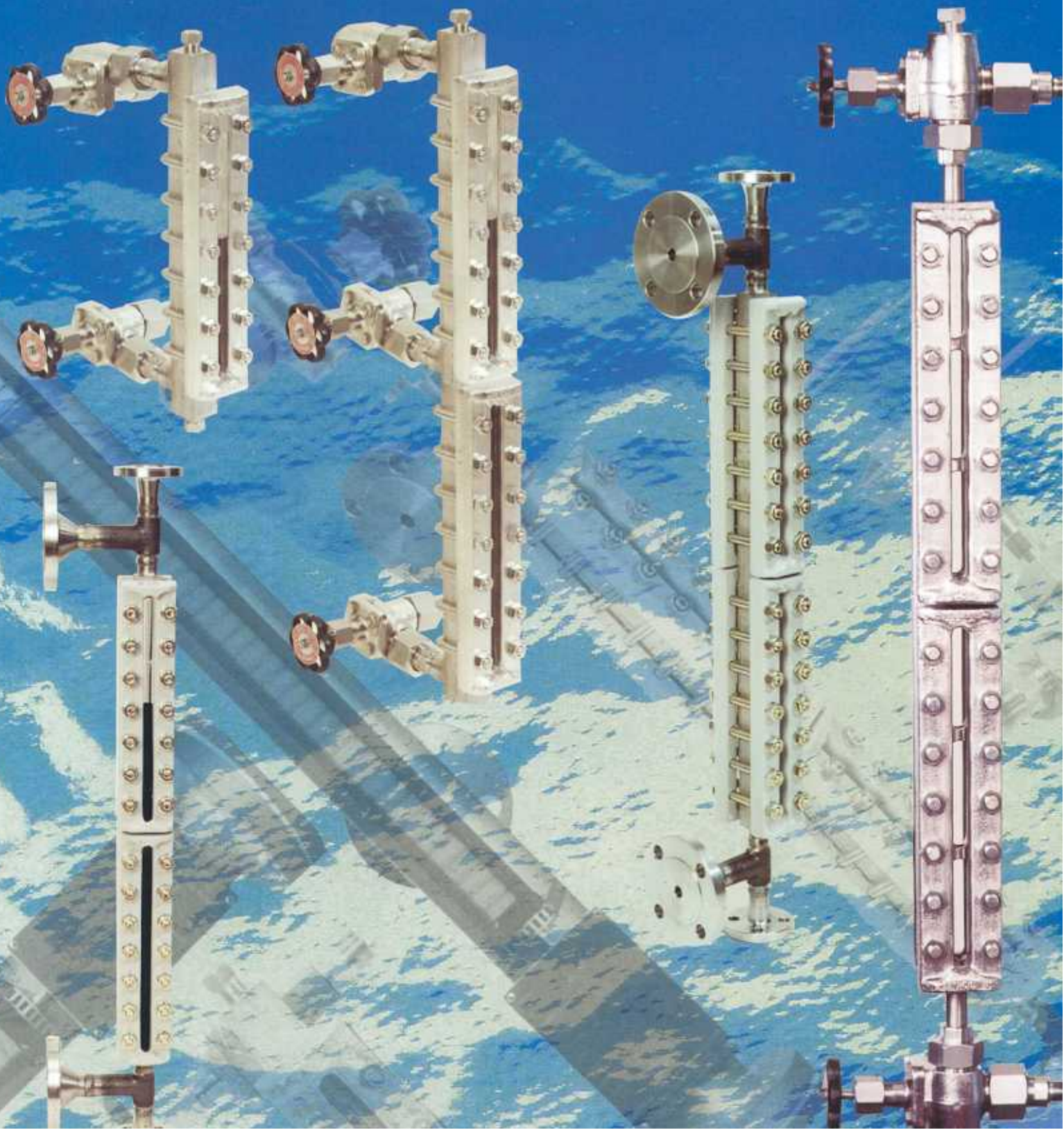
PRESSURE - TEMPERATURE CHART FOR TRANSPARENT GAUGES										PRESSURE - TEMPERATURE CHART FOR REFLEX GAUGES									
Series T-1000					Size number of window					Series R-1000					Size number of window				
Bar	1	2	3	4	5	6	7	8	9	Bar	1	2	3	4	5	6	7	8	9
Temp/c	210	195	184	168	158	142	131	116	105	Temp/c	316	305	287	274	263	254	234	221	210
40	140	130	123	112	105	94	87	77	70	40	210	203	191	182	175	165	156	147	140
90	133	125	116	102	101	91	82	74	66	90	198	191	182	172	165	156	147	140	135
150	124	116	108	95	93	85	77	70	63	150	186	178	171	162	154	147	138	131	123
200	117	110	103	91	87	80	73	65	60	200	172	165	158	150	142	134	126	120	112
260	107	102	95	87	80	74	66	59	52	260	158	151	144	137	130	123	116	108	101
315	94	89	82	73	71	65	59	52	47	315	142	136	130	123	117	108	103	97	91
370	77	73	70	62	59	52	49	42	38	370	116	112	105	98	91	87	80	74	70
Sat steam (using Mica)	42	42	42	42	38	35	31	28	24	Sat steam rating= 21 bar									
Series T-2000					Size number of window					Series R-2000					Size number of window				
Bar	1	2	3	4	5	6	7	8	9	Bar	1	2	3	4	5	6	7	8	9
Temp/c	316	305	290	274	263	251	237	221	210	Temp/c	421	408	395	379	368	353	339	326	316
40	210	203	193	182	175	167	158	147	140	40	281	270	263	253	246	233	226	217	210
90	200	195	184	175	165	159	149	142	133	90	266	258	257	240	233	224	217	210	200
150	195	179	172	164	158	149	140	133	125	150	252	243	235	226	220	210	203	195	187
200	177	169	167	154	147	139	132	123	117	200	233	225	218	210	203	196	188	180	172
260	163	157	150	144	135	130	123	116	108	260	216	208	202	193	188	179	172	165	159
315	144	137	130	126	120	115	107	102	94	315	195	189	182	175	169	163	156	149	143
370	119	112	108	103	98	93	88	84	77	370	161	156	151	145	140	133	127	120	116
Sat steam (using Mica)	52	52	52	52	52	52	52	52	52	Sat steam rating= 21 bar									
Series TL-500					Size number of window					Series RL-500					Size number of window				
Bar	1	2	3	4	5	6	7	8	9	Bar	1	2	3	4	5	6	7	8	9
Temp/c	83	79	75	71	68	64	61	56	52	Temp/c	107	103	99	94	90	87	83	79	75
40	55	52	50	47	45	42	40	37	35	40	71	68	66	63	60	58	55	52	50
90	48	46	44	42	40	38	35	33	31	90	64	62	59	57	55	53	50	48	46
150	43	40	39	37	35	32	31	28	26	150	57	55	53	52	49	47	45	44	42
200	37	35	33	31	30	28	26	24	23	200	51	49	47	45	44	42	40	38	37
260	31	29	28	27	26	24	23	22	21	260	47	45	43	42	40	39	38	36	35
315	25	24	23	22	22	21	20	19	18	315	43	42	40	39	38	36	35	34	33
370	19	18	18	17	16	15	15	14	14	370	37	37	36	35	34	33	33	32	30

reflex level gauges

Simco Reflex Level Gauges use special prism glass to provide an accurate indication of liquid levels. The Reflex gauge uses the principles of light refraction and reflection to give clear indication visible without close inspection.

transparent level gauges

Simco Transparent Level Gauges use clear glass and are used when it is desired to observe the colour or density of the liquid or the interface of two liquids.



magnetic level gauges

Magnetic Level Gauges are for use on dangerous or toxic fluids, gases or flammable liquids where flat glass level gauges are not permitted.

Pressure range: ANSI 150, 300, 600, 1500

Temperature range: up to 400°C.

Float: Manufactured to suit specific gravity.



QUALITY ASSURANCE ACCREDITATION AND QUALITY CONTROL

materials

316 S.S.

6.mo

Hastelloy C

Titanium

Plastic

accessories

High and low switches

Transmitter 4.20mA

Armaflex insulation

Heating jacket



Being totally committed to quality management, Simco Engineers are accredited to ISO 9001 for the Design and Manufacture of Liquid Level Gauges and Valves. All Simco products are engineered to stringent quality standards, appropriate technology

and years of experience provide total reliability and what the industry must have....Quality at the right price.

We encourage our suppliers of raw materials and services to maintain their quality procedures with regular inspection and review of materials and services. Simco guarantee 100% inspection of Level Gauges prior to despatch to ensure compliance with our customer's specification and requirements. All level gauges are supplied complete with pressure test certificate, En10204 3.1B minimum certification.

testing facilities

Simco provide in house hydrostatic pressure testing of level gauges together with special testing facilities available from approved Independent Test House including
Radiography
Dye Penetrant
Magnetic Particle
Ultrasonic
Positive Material Identification



CNC machinery

CNC computer programming guarantees consistent quality from our state of the art machining centres and turning lathes, to meet the stringent demands of the industry.

accessories

A full line of accessories are offered with Simco level gauges.

glass

BS 3463 - DIN 7080 - DIN 7081

Toughened borosilicate, high safety level, high chemical durability, exceptional purity and homogeneity.



frost proof extensions

Prevent frost build up over the gauge visible glass.

illuminators

For transparent gauges to provide light diffusion over entire visible length.

internal or external heating

To prevent certain liquids from solidifying.

mica shields

To prevent glass attack from caustic/steam service.

kel-f shields

To prevent glass attack from hydrofluoric acids.

materials of construction

A105 N	F51 DUPLEX
A350-LF2	F44
A182-F5	HASTELLOY C
A182-F11	HASTELLOY B
316/316L	INCOLOY 625/ 825
304/304L	MONEL
	ALLOY 20

other materials available upon request

simco
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