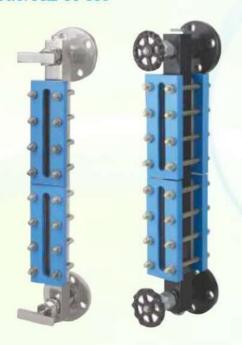


SPECIFICATION SERIES: FCRFLX

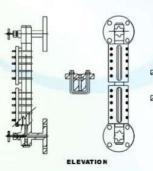
Model No. FRL-TT-880

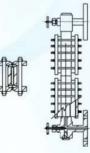
REFLEX / TRANSPARENT LEVEL INDICATOR

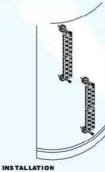


TECHNICAL SPECIFICATION

Indicator Body Tube Application Cover plate Mounting Connection Rated Temp. Rated Pressure Drain & Vent Control Valve SS-316 / SS-304 /MS
Toughened Borosilicate Glass
Water / Liquid / Chemical
SS-316/SS-304/MS
Side / Rear
Rear Flanged / Screwed
250° C
40 kg/cm²
Plug / Valve
SS-316 / SS-304 / MS







Process Temperature & Process Chart Pressure Temperature Chart For Reflex Gauge

Series R-L		Size Number of Window									
	1	2	3	4	5	6	7	8	9		
Temp °C / °F	Pressure (Bar / PSI)										
40° / 104°	165 / 23925	155 / 2247.5	145 / 2102.5	134 / 1943	124 / 1798	113 / 1638.5	103 / 1493.5	93 / 1348.5	83 / 1203.5		
95° / 203°	153 / 2218.5	144 / 2088	135 / 1957.5	125 / 1812.5	115 / 1667.5	106 / 1537	97 / 1406.5	87 / 1261.5	78 / 1131		
150° / 302°	141 / 2044.5	132 / 1914	124 / 1799	116 / 1682	106 / 1537	99 / 1435.5	90 / 1305	82 / 1189	73 / 1058.5		
205° / 401°	128 / 1856	120 / 1740	113 / 1638.5	105 / 1522.5	98 / 1421	91 / 1319.5	83 / 1203.5	76 / 1102	69 / 1000.5		
260° / 500°	117 / 1696.5	110 / 1595	103 / 1493.5	96 / 1392	90 / 1305	84 / 1218	77 / 1116.5	70 / 1015	64 / 928		
316° / 600°	105 / 15225	99 / 1435.5	93 / 1348.5	87 / 1261.5	82 / 1189	76 / 1102	70 / 1015	64 / 928	59 / 855.5		

Pressure Temperature Chart For Transparent Gauge

Series T-L				Size Number of Window						
	1	2	3	4	5	6	7	8	9	
Temp°C/°F	Pressure (Bar / PSI)									
40° / 104°	83 / 1203.5	77 / 1116.5	70 / 1014	64 / 928	59 / 855.5	53 / 768.5	47 / 681.5	41 / 594.5	35 / 507.5	
95° / 203°	75 / 1087.5	69 / 1000.5	64 / 928	58 / 841	52 / 754	47 / 681.5	42 / 609	37 / 536.5	31 / 449.5	
150° / 302°	66 / 957	61 / 884.5	57 / 826.5	52 / 754	47 / 681.5	43 / 623.5	38 / 551	29 / 420.5	25 / 362.5	
205° / 401°	59 / 855.5	55 / 797.5	50 / 725	46 / 667	42 / 609	37 / 536.5	33 / 478.5	29 / 420.5	25 / 362.5	
260° / 500°	50 / 725	47 / 681.5	44 / 638	40 / 580	36 / 522	33 / 478.5	29 / 420.5	25 / 362.5	22 / 319	
316° / 600°	43 / 623.5	39 / 565.5	37 / 536.5	33 / 478.5	30 / 435	28 / 406	25 / 362.5	22 / 319	19 / 275.5	

NOTE: RATING SHOWN ARE FOR OUR STANDARD CARBON STEEL, AND TYPE 316 STAINLESS STEEL CONSTRUCTIONS. FOR OTHER MATERIALS CONTACT FACTORY

Temperature & Pressure Chart

Series R-M		Size Number of Window									
	1	2	3	4	5	6	7	8	9		
Temp °C / °F	Pressure (Bar / PSI)										
40° / 104°	206 / 2987	200 / 2900	188 / 2726	180 / 2610	172 / 2494	162 / 2349	153 / 2218.5	145 / 2102.5	138 / 2001		
95° / 203°	195 / 2827.5	188 / 2726	179 / 2595.5	170 / 2465	162 / 2349	153 / 2218.5	144 / 2088	138 / 2001	131 / 1899.5		
150°/302°	183 / 2653.5	175 / 2537.5	168 / 2436	160 / 2320	152 / 2204	144 / 2088	136 / 1972	129 / 1870.5	121 / 1754.5		
205° / 401°	170 / 2465	162 / 2349	155 / 2247.5	147 / 2131.5	140 / 2030	133 / 1928.5	125 / 1812.5	118 / 1711	111 / 1609.5		
260° / 500°	156 / 2262	149 / 2160.5	142 / 2059	135 / 1957.5	128 / 1812.5	121 / 1754.5	114 / 1653	107 / 1551.5	100 / 1450		
316°/600°	140 / 2030	134 / 1943	128 / 1586	121 / 1754.5	115 / 1667.5	107 / 1551.5	102 / 1479	95 / 1377.5	90 / 1305		

Pressure Temperature Chart For Reflex Gauge

Series T-M		Size Number of Window								
	1	2	3	4	5	6	7	8	9	
Temp°C/°F	Pressure (Bar / PSI)									
40° / 104°	138 / 2001	128 / 1856	121 / 1754.5	110 / 1595	104 / 1508	93 / 1348.5	86 / 1247	76 / 1102	69 / 1000.5	
95° / 203°	121 / 1754.5	123 / 1783.5	115 / 1667.5	107 / 1551.5	99 / 1435.5	90 / 1305	81 / 1174.5	73 / 1058.5	66 / 957	
150° / 302°	122 / 1769	115 / 1667.5	107 / 1551.5	100 / 1450	92 / 1334	84 / 1218	76 / 1102	69 / 1000.5	62 / 899	
205° / 401°	116/1305	109 / 1580.5	101 / 1464.5	93 / 1348.5	86 / 1247	79 / 1145.5	72 / 1044	64 / 928	59 / 855.5	
260° / 500°	106 / 1537	100 / 1450	93 / 1348.5	86 / 1247	80 / 1160	72 / 1044	66 / 957	59 / 855.5	52 / 754	
316° / 600°	93 / 1348.5	88 / 1276	81 / 1174.5	76 / 1102	70 / 1015	64 / 928	59 / 855.5	52 / 754	47 / 681.5	

REFLEX/TRANSPARENT ILLUMINATION

1. Illuminator:

Transparent level gauge are supplied with illuminator both explosion proof and weather proof.



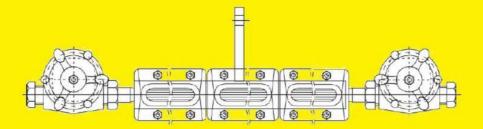
2. Scales:

Metallic engraved scale can be supplied with desired graduation.



3. Support Brackets:

Support brackets are recommended when the overall gauge length exceeds 1.5 meters.



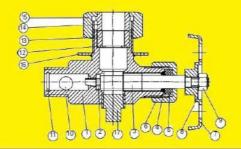


SERIES -

20

SERIES - '40'



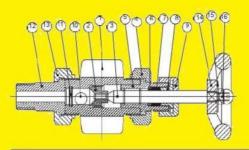


100LBS@100 Deg F

BLISS ANAND 10-TU valves feature straight type body with integrated seat and Elastomer (EPDM) Glass tube packing bush, with integral seat and PTFE valve cone. These are primarily used for tubular type level gages for low pressure & temperature applications. They are equipped with mounting clamps to fit glass protection rods. They also features a ball check arrangement.

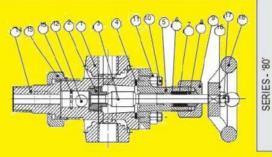
2400 LBS @100 F, 1400 LBS @ 750 F

BLISS ANAND SERIES 20 valves features integrated of bonnet drop forged offset steel bodies, stainless steel trim with wide choice of connections. Their design incorporate ball check arrangements and union gauge connections. They are equipped with union gauge connections which permits simple installation and easy access to the ball check.



4000 LBS @ 100 F, 1500 LBS @750 F

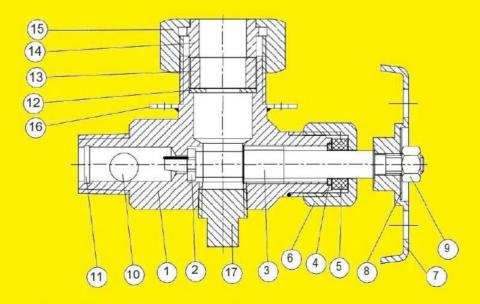
BLISS ANAND SERIES 40 valves are designed and built to the highest standard quality features such as regrindable and renewable seat and complete rust proofed carbon steel parts assuring long trouble free services union gauge connection enables gauges to be turned to any desired angle and removed of gauge without disturbing the valve which saves time in maintenance. Also the valve features union bonnet, and stem back seating.



400 LBS @ 100, F 1500 LBS @750 F

BLISS ANAND SERIES 80 valves are designed with bolted bonnet construction. Valves are equipped with stainless steel ball checks, stem back seating and offset construction. Union gauges connections is optional.

Reflex Level Gauge



Part No	. Part Name	STD Material	Part No.	Part Name	STD Material
1	VALVE BODY	A-105	10	BALL CHECK	SS-316
2	VALVE WASHER	TEFLON	11	BALL CHECK STOP	SS-304
3	STEM	SS-304	12	WASHER	SS-304
4	STEM PACKING WASHER	SS-316	13	GLASS PACKING	EPDM
5	STEM PACKING	GRAFOIL	14	PACKING GLAND	STEEL
6	PACKING NUT	STEEL		111111111111111111111111111111111111111	
7	HANDWHEEL	ZINC	15	GLASS PACKING NUT	STEEL
8	TAG NAME PLATE	SS-304	16	MOUNTING CLAMP	STEEL
9	STEM NUT	STEEL	17	PLUG	STEEL

STANDARD FEATURES

Soft Seat Valve Cone.

The valve features a soft seating valve cone in PTFE capped at the stem tip. This ensures zero leak when closed

Straight Body Pattern

The valve features a straight body pattern

Standard Connection Vessel : ¾" NPT male

Drain : 3/4" NPT female
Gauge : 3/8" NPT female

Optional Connection

Vessel : ½" NPT male
Vent & Drain : ½" NPT plugged

Safety Shut Off.

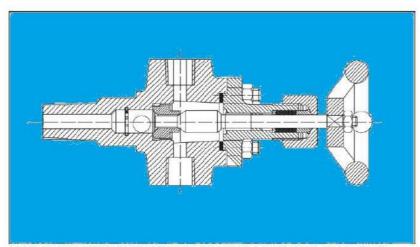
Valves are provided with stainless steel ball check which instantaneously shuts off flow of the medium being gauged in the event of class breakage

Gauge Valve

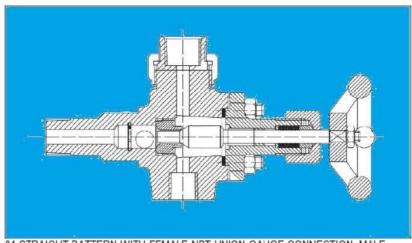
Gauge Valves With Bolted and Bonnet & Inside Screw, Designed to Reduce Threaded Connections.

These rugged valves are designed and manufactured for use with flat glass gauges, instruments piping and other applications.

Pressure Rating per intermediate rating ANSI 1250



83 STRAIGHT PATTERN WITH FEMALE NPT GAUGE CONNECTION, MALE VESSEL CONNECTION ON SOLID SHANK



84 STRAIGHT PATTERN WITH FEMALE NPT UNION GAUGE CONNECTION, MALE VESSEL CONNECTION ON SOLID SHANK