

# Round sight glass fitting PN 16 up to PN 320

with welding socket acc. to DIN 1092-1 Type 11

### Туре 390



### **APPLICATION:**

Round sight glass fittings are used for observation and illumination of the interior of closed vessels (boilers, tanks, silos, etc.) or pipelines. Sight glasses of Type 390 are round flanged fittings with welding sockets according to DIN EN 1092-1 for welding on, each completed with a sight glass plate inserted between the gaskets and screwed firmly.

#### INSTALLATION NOTE:

After welding the socket on the pressure vessel, the sealing surface must be checked for deformations! Reworking may be required! Observe the listed torque values for remounting the cover flange! The pressure rating does not consider the base flange. With welding socket according to DIN 1091-1 Type 11

Operating conditions:					
Temperature: (depending on glass and gasket)	up to <b>280 °C</b> with Borosilicate glass acc. to DIN 7080 or similar				
Pressure:	≤ 16 up to 320	bar(g)			
Low temperature use and higher temperatures / pressures on request					

Materials:			
Flange:	1.4571; 1.4404; 1.4539; 1.4435; 1.4541; 1.4301/7; 1.4876; 1.4828;2.4602; 2.4610		
Glass:	Borosilicate glass acc. to DIN 7080 or similar		
Gasket: 1 PTFE; FKM; NBR; C4400; Silico ne; EPDM; Graphite			
Screws:	A4-70 / A2-70		
Special materials on request <sup>1</sup> See INFO gaskets-leaflet			

#### ATTENTION!

The pressure-temperature limits according to DIN EN 1092-1 apply to the sightglass fitting type 390!



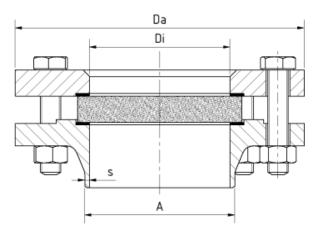
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PN	DN	Da [mm]	Di [mm]	A [mm]	s [mm]	Weight [kg]
	15	95	17	21,3	2	1,6
	20	105	22	26,9	2,3	2,3
	25	115	28	33,7	2,6	2,7
	32	140	37	42,4	2,6	4,0
	40	150	43	48,3	2,6	4,5
16	50	165	54	60,3	2,9	5,3
	65	185	70	76,1	2,9	6,4
	80	200	83	88,9	3,2	9,9
	100	220	107	114,3	3,6	9,7
	125	270	132	139,7	4	19,1
	150	300	160	168,3	4,5	24,9
PS 10*	200	375	207	219,1	6,3	46,4
PS 6*	250	425	259	273	7,1	51,6
PS 6*	300	485	308	323,9	8	69,1
PS 6*	350	555	339	355,6	8	105,2
	15	95	17	21,3	2	1,6
	20	105	22	26,9	2,3	2,3
	25	115	28	33,7	2,6	2,7
	32	140	37	42,4	2,6	4,0
	40	150	43	48,3	2,6	4,5
40	50	165	54	60,3	2,9	6,0
40	65	185	70	76,1	2,9	8,0
	80	200	83	88,9	3,2	10,2
	100	235	107	114,3	3,6	13,9
	125	270	132	139,7	4	19,9
	150	300	160	168,3	4,5	25,8
	200	375	207	219,1	6,3	49,4
	15	105	17	21,3	2	2,5
	20	130	22	26,9	2,6	4,3
	25	140	28	33,7	2,6	5,5
	32	155	37	42,4	2,9	6,8
	40	170	43	48,3	2,9	8,7
63	50	180	54	60,3	2,9	9,6
	65	205	70	76,1	3,2	12,2
	80	215	82	88,9	3,6	14,4
	100	250	106	114,3	4	20,3
	125	295	131	139,7	4,5	31,8
	150	345	157	168,3	5,6	46,8

PN	DN	Da	Di			Weight
		[mm]	[mm]	[mm]	[mm]	[kg]
100	15	105	17	21,3	2	2,5
	20	130	22	26,9	2,6	4,4
	25	140	28	33,7	2,6	5,5
	32	155	37	42,4	2,9	6,8
	40	170	43	48,3	2,9	8,7
	50	195	54	60,3	3,2	12,5
	65	220	69	76,1	3,6	16,7
	80	230	81	88,9	4	19,1
	100	265	104	114,3	5	28,4
	125	315	127	139,7	6,3	45,0
	15	105	17	21,3	2	2,5
	25	140	28	33,7	2,9	5,5
160	40	170	41	48,3	3,6	9,4
100	50	195	52	60,3	4	13,5
	65	230	60	76,1	5	26,4
	80	255	79	101,6	11	34,8
	15	130	16	21,3	2,6	5,3
	25	150	27	33,7	3,6	7,6
250	40	185	38	48,3	5	14,0
	50	200	48	60,3	6,3	17,8
	65	230	60	76,1	8	26,5
	15	130	15	21,3	3,2	5,3
320	25	160	24	33,7	5	10,6
320	40	195	36	48,3	6,3	17,6
	50	210	48	63,5	8	22,2



\*max. operating pressure 6 bar(g) resp. 10 bar(g) for these nominal sizes

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Technical changes and errors reserved!



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### PRODUCTCODE:

Group	TYPE	DN	PN	Base flange*	Glass	Gasket	Variant
11	390	1: 15 2: 20 3: 25 4: 32 5: 40 6: 50 7: 65 <sup>2</sup> 13: 250 14: 300 15: 350	1: 16 2: 40 3: 63 4: 100 5: 160 6: 250 7: 320	2: 1.4571 3: 1.4404 4: 1.4306 5: 1.4539 7: 1.4435 8: 1.4541 9: Special	<ol> <li>Borosilicate glass (Boro) acc. to DIN 7080 or similar</li> <li>Boro with PTFE wiper</li> </ol>	1: PTFE 2: FKM 3: NBR 4: C4400 5: Silicone 6: EPDM 7: Graphite 8: Special	Assigned by LUMISTAR if required

INFO: Unless otherwise stated, the factory standard highlighted is supplied. \*Cover flange according to quotation / order confirmation. See table on page 2

### SPECIAL DESIGNS/OPTIONS:

- a) High and low temperature version on request
- b) Vacuum version (390V)
- c) Wiper SGW
- d) LED lights, for EX and Non-EX areas
- e) FEP protective screen (for higher pH-values)
- f) Mica protection (up to 320 °C with borosilicate glass acc. to DIN 7080 or similar)
- g) Thread connection (Type 392)
- h) Pipe connection (Type 391)



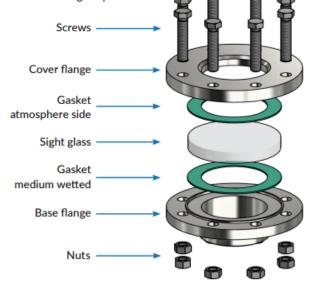
Version g) (Type 392)



Version h) (Type 391)

### EXAMPLE:

11-390-13-1-2-1-4-0 equivalent to: LUMISTAR Type 390 DN 200 PN 16 Base flange made of 1.4571 Cover flange made of 1.4571 Borosilicate glass acc. to DIN 7080 or similar Gasket C4400 Standard design - additional designs optional



#### **RECOMMENDATION:**

For aggressive media or steam, mica discs should be used to protect the glass.

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