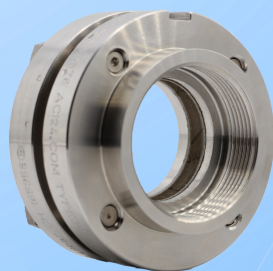




ACI
INDUSTRIEARMATUREN

Circular sight glass fitting type 394 PN 16/160 with female thread for screwing on

Type 394



With threaded connection according to DIN EN ISO 228-1

USAGE

The sight glass fittings type 394 with screwed sockets are suitable for screwing into pipelines, boilers, tanks, and apparatus of all kinds. The areas of application are everywhere where visual inspections of filling or flow are required. They are equally suitable for liquids and gases. The sight glass fittings are particularly recommended for custom made designs in various fields of application.

Operating condition

Temperature: (depending on glass and gasket)	≤ 280 °C	Borosilicate glass (DIN 7080 or similar)
Pressure:	≤ 16 barg to 160 barg	
Higher pressures available on request		
Cryogenic application and higher temperatures / pressures available on request		

Materials

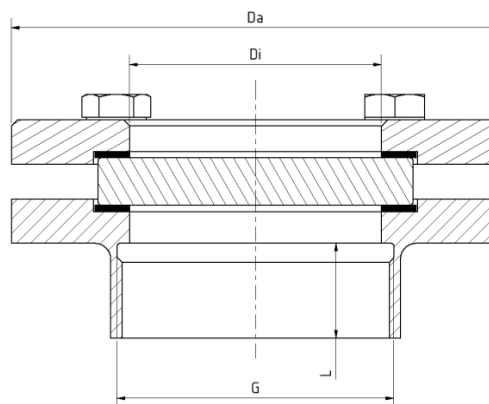
Base flange:	1.4571; 1.4404
Glass:	Borosilicate glass (DIN 7080 or similar)
Gasket ¹ :	PTFE; FKM; NBR; C4400; Silicone; EPDM; Graphite
Screws:	A2-70 / A4-70
Special materials on request	

1) See "INFO Gaskets"

INSTALLATION NOTE

The screw connection must be sealed with the appropriate sealing material in order to reach the specified pressure rating. The connecting thread is not designed to be self-sealing!

DRAWING





PN	G	Da [mm]	Di [mm]	L [mm]	Weight [kg]
16	½"	70	15	20	0.8
	1"	95	25	20	1.5
	1½"	110	40	20	2.2
	2"	110	40	20	2.1
40	½"	70	15	20	0.8
	1"	95	25	20	1.5
	1½"	110	40	20	2.2
	2"	110	40	20	2.2
63	½"	95	15	20	0.8
	1"	95	25	20	1.5
	1½"	like PN 100			
	2"	like PN 100			
100	½"	70	15	20	0.8
	1"	95	25	20	1.5
	1½"	110	40	20	2.2
	2"	110	40	20	2.2
160	½"	70	15	20	0.8
	1"	95	25	20	1.8
	1½"	110	40	20	2.6
	2"	110	40	20	2.7
Other sizes and pressure ratings on request					
Installation via hook wrenches as for DIN 11851					



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PRODUCT CODE

Example for Explaining the Code Composition

11 - 394 - 2 - 1 - 2 - 1 - 4 - 0

GROUP	TYPE	G	PN	BASE FLANGE ¹	GLASS	GASKET	VARIANT
11	394	1) ½"	1) 16	1) 1.4404	1) Borosilicate glass according to DIN 7080 or similar	1) PTFE	0) Standard
		2) 1"	2) 40	2) 1.4571		2) FKM	
		3) 1½"	3) 63	3) Custom made design	4) Borosilicate glass ² + PTFE wiper SGW	3) NBR	
		4) 2"	4) 100		5) Borosilicate glass ² + silicone wiper SGW	4) C4400	
		5) Custom made design	5) 160			5) Silicone	
			6) Custom made design			6) EPDM	
						7) Graphite	
						8) Custom made design	

1) Cover flange according to offer / order confirmation

2) Similar to DIN 7080



Unless otherwise stated, the highlighted factory standard is delivered.

EXAMPLE

The product code **11-394-2-1-2-1-4-0** corresponds to the standard version:

ACI type 394

Thread G 1"

PN 16

Base flange made of 1.4571

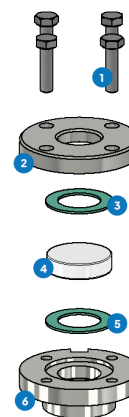
Cover flange made of 1.4571

Borosilicate glass (DIN 7080 or similar)

Gasket KlingerSil® C4400

STRUCTURE

1. Screws
2. Cover flange
3. Glass cushion
4. Sight glass
5. Gasket
6. Base flange with threaded connection



For aggressive media, FEP or Halar® coated sight glasses can be used. In case of steam, mica discs should be used for the protection of the glasses.



Circular sight glass fitting type 394 PN 16/160 with female thread for screwing on

Type 394

QUICK OVERVIEW



max. 160 barg



heat resistant up to 280
°C



for liquid media



for gaseous media



Nominal sizes
½" - 2"



Custom designs possible



> 50 sealing materials



Accessories available

OPERATING CONDITIONS

Operating conditions depend on the choice of glass and gaskets:

		Sight glass		Gaskets					
		Borosilicate glass (DIN 7080 or similar)	PTFE max. 200 °C	FKM max. 200 °C	NBR max. 80 °C	C4400 max. 175 °C	Silicone max. 180 °C	EPDM max. 130 °C	Graphite > 400 °C
TEMPERATURE	up to 80 °C	✓	✓	✓	✓	✓	✓	✓	✓
	up to 130 °C	✓	✓	✓	✗	✓	✓	✓	✓
	up to 175 °C	✓	✓	✓	✗	✓	✓	✗	✓
	up to 200 °C	✓	✓	✓	✗	✗	✗	✗	✓
	up to 280 °C	✓	✗	✗	✗	✗	✗	✗	✓
PRESSURE	up to 16 barg	✓	✓	✓	✓	✓	✓	✓	✓
	up to 40 barg	✓	✓	✗	✗	✓	✗	✗	✓
	up to 63 barg	✓	✗	✗	✗	✗	✗	✗	✓
	up to 100 barg	✓	✗	✗	✗	✗	✗	✗	✓
	up to 160 barg	✓	✗	✗	✗	✗	✗	✗	✓

✓ suitable ✗ unsuitable

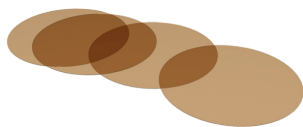


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**Circular sight glass
fitting type 394 PN
16/160**
with female thread for
screwing on

**Type
394**

OPTIONAL ACCESSORIES



Round mica discs

- > up to 320 °C with Borosilicate glass
DIN 7080



Sight glass wiper

- > with PTFE, silicone, EPDM or FKM
wipers



FEP protective screen / coating

- > for high pH values

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