YDAC INTERNATIONAL



Fluid level gauge Riser tube made of glass **FSA**

SYMBOL Size 0076 - 0381



DESCRIPTION

The FSA is a high-quality, robust fluid level gauge for continuous level control in hydraulic tanks.

The fluid enters the unit via the lower connection bore and is clearly visible in the tube. This means that the fluid level can be easily seen on the outside of the housing. This is also possible from the side, if a frame with a side sight glass is

Six sizes, customisable contrast panes, various floaters or hollow balls and numerous additional thermal functions complete the high functionality of the FSA.

PRODUCT FEATURES

- Nom. size 76–381 mm
- Round riser tube made of glass
- · Connectors made of PA or aluminium
- Housing made of aluminium or stainless steel
- Optimised sealing volume thanks to larger O-ring cord size
- Improved seal between tank and FSA thanks to geometrically optimised connector
- The additional washer prevents the housing from being scratched by spanners

CUSTOMER BENEFITS

- Robust design
- Increased hydraulic fluid temperature, media compatibility and UV-resistance
- Reduced risk of damage to the O-ring for the bolt resulting from incorrect installation at the tank
- · Improved torque reliability
- Can also be used with fluids containing glycol

Item	Description			
(1)	Connector (2x)			
(2)	Housing frame			
(3)	Riser tube			
(4)	Banjo bolt (2x)			
(5)	Washer (2x)			
(6)	Seal (2x)			
(7)	Mounting nut (2x)			

4 5 6 7

NOTICE:

As regards the relevant operating and environmental conditions (temperature, dynamics, cleaning), the suitability of the product must be verified by the vehicle/system manufacturer or owner.

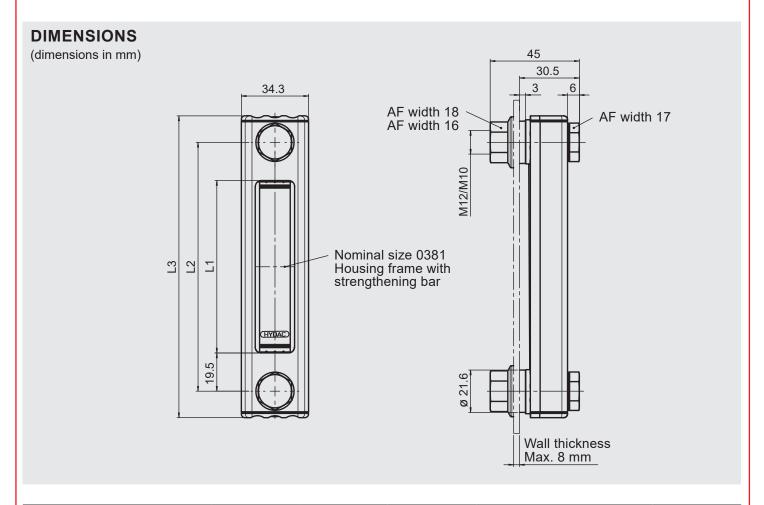
If you have any questions, please get in touch with your contact in Technical Sales.

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TECHN	ICAL DATA						
Connection	Connection Banjo bolt M12x45 or M10x45						
Type of connection Threaded hole (M12 or M10) or through-bore (Ø13 or Ø11)							
Mounting	position	vertically on	the tank wall				
Weight		Size 0076	Size 0127	Size 0176	Size 0254	Size 0305	Size 0381
-		0.18 kg	0.21 kg	0.23 kg	0.25 kg	0.26 kg	0.31 kg
Design of riser tube Round tube Ø19							
Media Mineral oil in acc. with DIN 51524 Part 1 and 2, water, oil, emulsions, synthetic fluids, glycol and fluids containing glycol							
Viscosity of fluid Max. 2000 mm²/s							
Max. oper	ating pressure	0.5 bar (higher pressures on request)					
Flow direct	tion	no orientation restrictions					
Ambient t	emperature	-20 °C to +95 °C					
Temperature of operating fluid		-20 °C to +95 °C (with thermometer -10 °C to +80 °C) (others on request)					
Material:	Connectors:	PA or aluminium					
	Riser tube:	Glass					
	Housing frame:	Aluminium or stainless steel (steel on request)					
	Seal:	FKM or NBR (EPDM on request)					
	Bolts, nuts:	Steel galvanised or stainless steel					
	Contrast pane:	Aluminium					
Accessor	Accessories Shut-off elements (ABV, ABK, ABS), protective cover						

NOTICE:

To ensure correct functioning, pressure, viscosity and temperature specifications must be observed. For perfect function at high temperatures, it must be ensured that the tightening torques of the bolts are not changed after the initial installation.



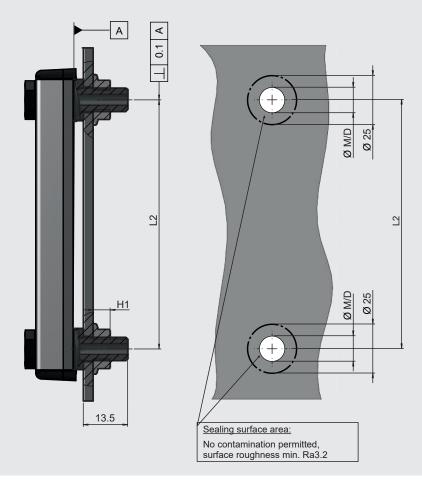
Nominal size ≅	L	.1	L	.2	L	.3
Centre distance of bolts [mm]	[mm]	[in]	[mm]	[in]	[mm]	[in]
0076	37	1.5	76	3	103	4.1
0127	88	3.5	127	5	154	6.1
0176	137	5.4	176	7	203	8.0
0254	215	8.5	254	10	281	11.1
0305	266	10.5	305	12	332	13.1
0381	342	13.5	381	15	408	16.1

SEAL VARIANTS or tank connection

Sealing washer (standard) Quad ring (only for alum. connectors) O-ring (only for alum. connectors)

INSTALLATION INFORMATION

(dimensions in mm)



Screw	Nut	Threaded hole ØM	Through-bore ØD	H1	Tightening torque dry / oiled
M12, SW17	M12, SW18	M12 – min. 6 mm deep	13 mm	12 mm	8 _{-0.5} Nm / 6 ^{+0.5} Nm
M10, SW17	M10, SW16	M10 – min. 5 mm deep	11 mm	10 mm	8 _{-0.5} Nm / 6 ^{+0.5} Nm

SPARE PARTS

Seal kit, standard (4x O-ring, 2x sealing washer)

Nom. size	Size	Material	Order no. = part no.
0076 - 0381	M12	NBR	4334716
0076 - 0381	M12	FKM	4334379
0076 - 0381	M10	NBR	4664374
0076 - 0381	M10	FKM	4664416

NOTE

The information in this brochure relates to the operating conditions and applications described.

For applications and/or operating conditions not described please contact the relevant technical department.

The operator is always responsible for determining the product suitability for the specific application. Quantified values for product characteristics are average values for a new product that undergo a time deterioration process.

Subject to technical modifications and errors.

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