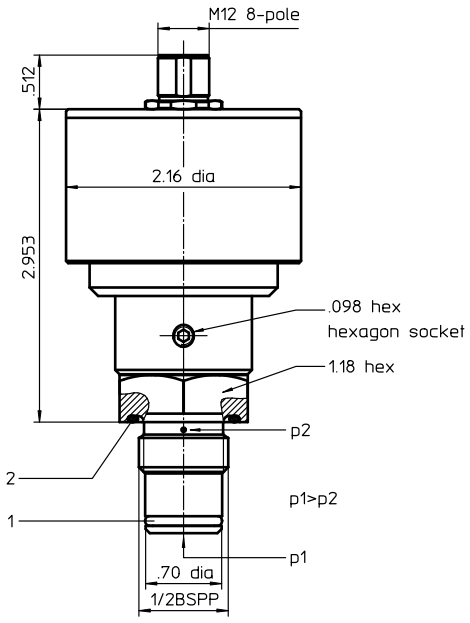
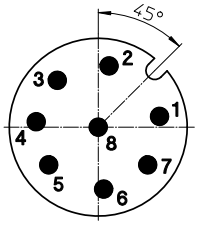
ELECTRONICAL CLOGGING INDICATOR
Series VS5 (thread execution)

Sheet No.
1619 E



Configuration of M12 connector at VS5



Connection configuration

1	GND/0V
2	24VDC current supply
3	24V PNP at Δp 75%
4	24V PNP at Δp 100%
5	6...20 mA
6	⏚PE
7	reserve not connected
8	reserve not connected

1. Type index: (ordering example)

VS5. 1,5. V. -. NO. CS. -. -

1	2	3	4	5	6	7	8

1 **series:**
VS5 = electronical clogging indicator with analog output 6...20mA and 2x PNP-switching contacts (75% and 100%)

2 **indicator-pressure difference:** Δp-nominal
1,5 = 22 PSI 5,0 = 73 PSI
2,5 = 36 PSI 6,0 = 87 PSI

3 **sealing material:**
P = Nitrile (NBR)
V = Viton (FPM)

4 **material:**(screw-in-housing)
- = standard (aluminium)
VA = stainless steel

5 **contact:**
NO = normally opened,
NC = normally closed

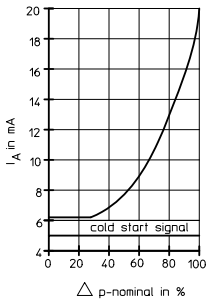
6 **cold start:**
CS = with cold start suppression up to 77°F
- = without cold start suppression

7 **execution:**
- = standard

8 **connection:**
- = without
GS5 = M12, 8-pole female connector
SS5 = M12, 8-pol. female connector with 197 inch cable and 3 installed LED's red/yellow/green (only in combination with contact "NO = normally opened")

2. Technical data:

max. operating pressure:	6000 PSI (stainless steel) 3200 PSI (aluminium)
max. pressure difference:	2320 PSI
operating temperature:	-40°F…176FC
temperature range of fluid:	-13°F…212°F (NBR) 14°F…212°F (FPM) other temperature ranges on request
sealing material:	NBR / FPM, further seals on request
power voltage:	+24VDC ±20%
current consumption:	approx.. 25mA + current signal output (measured with 24VDC)
output signal:	Δp: 6...20mA, max load: 400Ω 5mA by cold start suppression 75% and 100% from $\Delta p_{nominal}$ as 24VDC
error of measurement:	± 5% v. $\Delta p_{nominal}$
operating ability:	< 400mA at closed state < 1mA at opened state
protection:	IP65 (IP67 on request)
fatigue strength:	max. 1 Mio load cycles for aluminium
starting torque:	74 lb-ft. (stainless steel) 59 lb-ft. (aluminium)



3. Spare parts:

item	qty.	designation	dimension	article-no.	
1	1	O-ring	14 x 2	304342 (NBR)	304722 (FPM)
2	1	O-ring	22 x 2	304708 (NBR)	304721 (FPM)

EDV 05/17

Changes of measures and design are subject to alteration!

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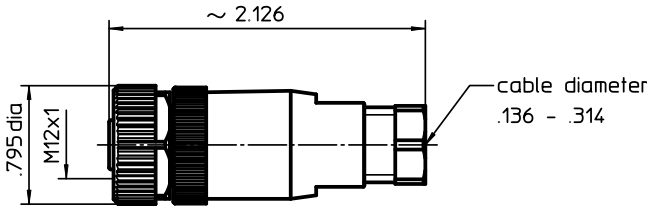
4. Functions:

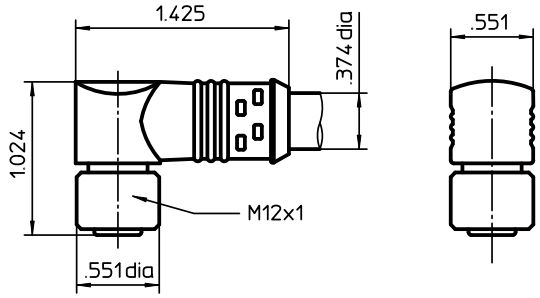
- continuous pressure difference measuring
- cold start indication up to approx. + 77°F
- suppression of pressure peaks
- dust-proof and splash-proof aluminium or stainless steel housing
- interference-free signal transmission over longer distances
- optimal utilization of the filter elements based on a high definition of the measure value within the final measure range
- interchangeable with clogging indicator type AE

5. Connection:

GS5 = M12, 8-pole female connector (article-no. 345742)
temperature range: -40°F … +176°F



SS5 = M12, 8-pole female connector with 197 inch cable and 3 installed LED's red/yellow/green (article-no. 347370)
temperature range: -13°F … +176°C



Connection configuration

WH	1	GND/0V
BN	2	24VDC current supply
GN	3	24V PNP at Δp 75%
YE	4	24V PNP at Δp 100%
GY	5	6...20 mA
PK	6	⏚PE
BU	7	reserve not connected
RD	8	reserve not connected

6. Accessories for replacing VS1/VS2 by VS5: (To use the previous connector)

The following adapters are available:

- Article No.: 347425, description: GSA1: for replacing VS1 of executions according to data sheet: 44522 / 60551 / 1617
- Article No.: 350639, description: GSA1-X: for replacing VS1 of executions according to data sheet: 49211 / 44368 / 43477
- Article No.: 347428, description: GSA2: for replacing VS2