

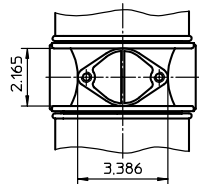
measuring connection M1/M2/M3/M4 = thread NPT 1/8"

- 1) connection for the potential equalisation, only for application in the explosive area

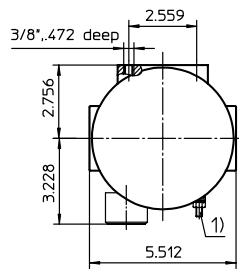
Dimensions: inch

type	A	B	C	D	weight lbs.
WPL 90	9.25	6.89	7.68	5.07	3.75
WPL 130	11.22	8.86	9.65	10.04	4.63
WPL 180	16.50	6.89	7.68	-	7.16
WPL 260	20.43	8.86	9.65	-	8.81

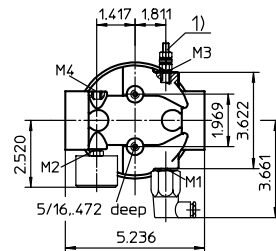
view X



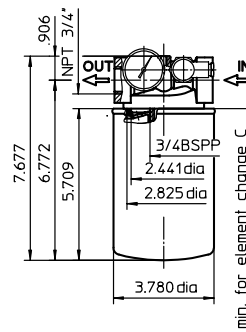
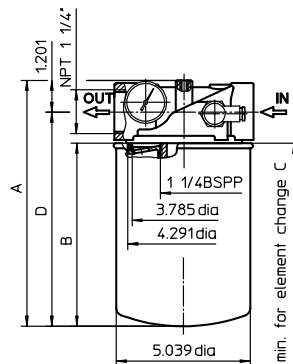
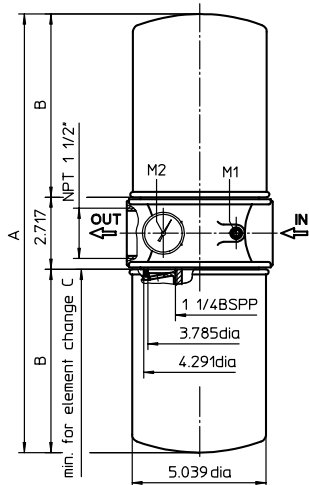
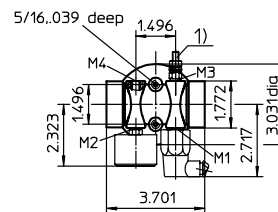
WPL 180/260



WPL 90/130



WPL 45



SPIN-ON FILTER

Series WPL 45-260 145 PSI

Sheet No.
9000 N

1. Type index:

1.1. Complete filter: (ordering example)

WPL. 90. 10P. R. E1. - . - . -
1 2 3 4 5 6 7 8

- series:
WPL = spin-on filter
- nominal size: 45, 90, 130, 180, 260
- filter-material and filter-fineness:
10 P = 10 µm paper
10 VG = 10 µm_(c) Interpor fleece (glass fiber), WPL 45/90/180
- internal valve:
- = without (WPL 45/90/130)
S = by-pass valve suction filter Δp 4 PSI
R = by-pass valve pressure filter Δp 29 PSI
- measuring connection M1:
- = without clogging indicator
O = visual, see sheet-no. 1616 ;
E1 = pressure, switch see sheet-no. 1616
E2 = pressure, switch see sheet-no. 1616
E5 = pressure, switch see sheet-no. 1616
PA = potential equalisation
- measuring connection M2:
- = without clogging indicator
O1 = visual, see sheet-no. 1616
E4 = pressure switch, see sheet-no. 1616
PA = potential equalisation
- measuring connection M3:
possible indicators see position 5 of the type index (WPL 45/90/130)
- measuring connection M4:
possible indicators see position 6 of the type index (WPL 45/90/130)

1.2. Filter element: (ordering example)

WP. 90. 10P
1 2 3

- series:
WP = spin-on cartridge for in-lin filter
- nominal size: 45, 90, 130
WPL 180 = 2x NG 90
WPL 260 = 2x NG 130
- filter-material and filter-fineness:
10 P = 10 µm paper
10 VG = 10 µm_(c) Interpor fleece (glass fiber), WPL 45/90/180

2. Description:

In-line filter series WPL and WP-spin-on-cartridges are suitable for an operating pressure up to 145 PSI. They are appointed for mounting into pressure lines and return lines. the spin-on-cartridges, e.g. are directly screwed to hydrostatic drives. These series allow an easy maintaining with short operating interruption. After pollution the complete spin-on-cartridges has to be changed. The WPL-filter can alternatively be equipped with pressure switch and/or pressure gauge. The serie can be used for all mineral oils (hydraulic- and lubrication oils).

3. Technical data:

temperature range
operating medium:
max. operating pressure:
test pressure:
opening pressure by-pass valve for pressure filter:
opening pressure by-pass valve for suction filter:
pressure switch:
pressure switch:
gaskets:

+14°F to 230°F
mineral oil, other media on request
145 PSI
188 PSI
Δp 29 PSI
Δp 4 PSI
Δp 22 PSI see sheet-no. 1616
Δp 3.6 PSI see sheet-no. 1616
Nitrile (NBR)

Classified under the Pressure Equipment Directive 97/23/EC for mineral oil (fluid group 2), Article 3, Para. 3.
Classified under ATEX Directive 94/9/EC according to specific application (see questionnaire sheet-no. 34279-4).

4. Pressure drop flow curves:

Precise flow rates see 'INF-Expert-System Filter', respectively Δp-curves; depending on filter fineness and viscosity.

5. Test methods:

Filter elements are tested according to the following ISO standards:

ISO 2941	Verification of collapse/burst resistance	ISO 3724	Verification of flow fatigue characteristics
ISO 2942	Verification of fabrication integrity	ISO 3968	Evaluation of pressure drop versus flow characteristics
ISO 2943	Verification of material compatibility with fluids	ISO 16889	Multi-pass method for evaluating filtration performance
ISO 3723	Method for end load test		

Changes of measures and design are subject to alteration!

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