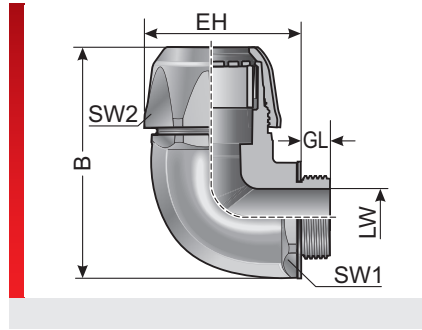


## VW 90° (metal thread)



m-top conduit fitting

### PRODUCT INFORMATION

The VW 90° conduit fittings are made of specially modified polyamide 6, thermo-plastic elastomer and nickel-plated brass. The materials are halogen, phosphor and cadmium-free.

The VW 90° conduit fittings feature the following advantages:

- Quick assembly, insert conduit, screw upper part tight, done
- No parts can get lost, delivered completely assembled

- Resistant to vibration due to lockable cap nut
- Clamping along entire circumference, ensuring maximum tensile strength.
- High level of tightness at IP 68/69K to 6 bar without any add-on components to EN 60529

Specification:

- EN 45545-2 3x HL3

### SPECIFICATIONS

- Fitting: Mod. polyamide PA 6  
Connecting thread Mod. polyamide PA 6
- 40 – 110 °C transient / short term  
140 °C
- IP 68 up to 6 bar (IP 69K)
- i.a.w. UL94 V0 self-extinguishing

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Type	Order No.	Colour	Connecting thread	Suitable for Murrflex	EH mm	GL mm	LW mm	B mm	SW 1 / 2 mm	Pack qty.
<b>Metric metal thread</b>										
VW 90 M12-M <sup>1)</sup>	83515252	Black	M12x1.5	M12/P09	29.00	12.00	7.20	45.00	21.00 / 21.00	50
VW 90 M16-M <sup>1)</sup>	83515254	Black	M16x1,5	M16/P11	35.00	12.00	10.50	55.00	27.00 / 27.00	50
VW 90 M20-M <sup>1)</sup>	83515256	Black	M20x1.5	M20/P16	45.00	13.00	14.70	67.00	34.00 / 34.00	50
VW 90 M25-M <sup>1)</sup>	83515258	Black	M25x1.5	M25/P21	55.00	13.00	18.70	78.00	41.00 / 41.00	25
VW 90 M32-M <sup>1)</sup>	83515260	Black	M32x1.5	M32/P29	65.00	14.00	25.50	92.00	50.00 / 50.00	25
VW 90 M40-M <sup>2)</sup>	83515262	Black	M40x1.5	M40/P36	75.00	17.00	33.00	109.00	60.00 / 60.00	25
VW 90 M50-M <sup>1)</sup>	83515264	Black	M50x1.5	M50/P48	93.00	17.00	42.00	134.00	75.00 / 75.00	10
<b>Pg metal thread</b>										
VW 90 P9-M <sup>1)</sup>	83515652	Black	Pg 09	M12/P09	29.00	12.00	7.20	45.00	21.00 / 21.00	50
VW 90 P11-M <sup>1)</sup>	83515654	Black	Pg 11	M16/P11	35.00	12.00	10.50	55.00	27.00 / 27.00	50
VW 90 P16-M <sup>1)</sup>	83515656	Black	Pg 16	M20/P16	45.00	13.00	14.70	67.00	34.00 / 34.00	50
VW 90 P21-M <sup>1)</sup>	83515658	Black	Pg 21	M25/P21	55.00	14.00	18.70	78.00	41.00 / 41.00	25
VW 90 P29-M <sup>1)</sup>	83515660	Black	Pg 29	M32/P29	65.00	14.00	25.50	92.00	50.00 / 50.00	25
VW 90 P36-M <sup>2)</sup>	83515662	Black	Pg 36	M40/P36	75.00	17.00	33.00	109.00	60.00 / 60.00	25
VW 90 P48-M <sup>1)</sup>	83515664	Black	Pg 48	M50/P48	93.00	17.00	42.00	134.00	75.00 / 75.00	10

## Type VW 90° (metal thread)

Type	Order No.	Colour	Connecting thread	Suitable for Murrflex	EH mm	GL mm	LW mm	B mm	SW 1 / 2 mm	Pack qty.
VW 90 P9-M <sup>1)</sup>	83515612	Grey	Pg 09	M12/P09	29.00	12.00	7.20	45.00	21.00 / 21.00	50
VW 90 P11-M <sup>1)</sup>	83515614	Grey	Pg 11	M16/P11	35.00	12.00	10.50	55.00	27.00 / 27.00	50
VW 90 P16-M <sup>1)</sup>	83515616	Grey	Pg 16	M20/P16	45.00	13.00	14.70	67.00	34.00 / 34.00	50
VW 90 P21-M <sup>1)</sup>	83515618	Grey	Pg 21	M25/P21	55.00	14.00	18.70	78.00	41.00 / 41.00	25
VW 90 P29-M <sup>1)</sup>	83515620	Grey	Pg 29	M32/P29	65.00	14.00	25.50	92.00	50.00 / 50.00	25
VW 90 P36-M <sup>2)</sup>	83515622	Grey	Pg 36	M40/P36	75.00	17.00	33.00	109.00	60.00 / 60.00	25
VW 90 P48-M <sup>1)</sup>	83515624	Grey	Pg 48	M50/P48	93.00	17.00	42.00	134.00	75.00 / 75.00	10
<b>NPT metal threading</b>										
VW 90 N 3/8"-M <sup>1)</sup>	83516050	Black	3/8"	M16/P11	35.00	12.00	10.50	55.00	25.00 / 25.00	50
VW 90 N 1/2"-M <sup>1)</sup>	83516052	Black	1/2"	M20/P16	45.00	13.00	14.60	67.00	34.00 / 34.00	50
VW 90 N 3/4"-M <sup>1)</sup>	83516054	Black	3/4"	M25/P21	55.00	14.00	18.70	78.00	41.00 / 41.00	25
VW 90 N 1"-M <sup>1)</sup>	83516056	Black	1"	M32/P29	65.00	14.00	25.60	92.00	50.00 / 50.00	25
VW 90 N 1 1/4"-M <sup>2)</sup>	83516058	Black	1 1/4"	M40/P36	75.00	18.00	33.50	109.00	60.00 / 60.00	25
VW 90 N 2"-M <sup>1)</sup>	83516060	Black	2"	M50/P48	93.00	18.00	42.00	134.00	75.00 / 75.00	10
VW 90 N 3/8"-M <sup>1)</sup>	83516010	Grey	3/8"	M16/P11	35.00	12.00	10.50	55.00	25.00 / 25.00	50
VW 90 N 1/2"-M <sup>1)</sup>	83516012	Grey	1/2"	M20/P16	45.00	13.00	14.60	67.00	34.00 / 34.00	50
VW 90 N 3/4"-M <sup>1)</sup>	83516014	Grey	3/4"	M25/P21	55.00	14.00	18.70	78.00	41.00 / 41.00	25
VW 90 N 1"-M <sup>1)</sup>	83516016	Grey	1"	M32/P29	65.00	14.00	25.60	92.00	50.00 / 50.00	25
VW 90 N 1 1/4"-M <sup>2)</sup>	83516018	Grey	1 1/4"	M40/P36	75.00	18.00	33.50	109.00	60.00 / 60.00	25
VW 90 N 2"-M <sup>1)</sup>	83516020	Grey	2"	M50/P48	93.00	18.00	42.00	134.00	75.00 / 75.00	10
<sup>1)</sup> With cURus- approval										
<sup>2)</sup> With CSA- and cURus- approval										

### MATERIAL PROPERTIES



Fitting: Mod. polyamide PA 6  
Connecting thread Mod. polyamide PA 6

### THERMAL PROPERTIES



**Temperature / temperature range**  
-40 – 110 °C transient / short term 140 °C

### MECHANICAL PROPERTIES



**Protection class**  
IP 68 up to 6 bar (IP 69K)

## Type VW 90° (metal thread)

### FIRE BEHAVIOUR

**Fire classification**

i.a.w. UL94 V0 self-extinguishing

**Smoke emission class**

SR2 DIN 54837 / 5510-2

**Flammability classification**

S4 DIN 5510-2

**Fire properties as per EN 45545-2**

C.I.T. R22 / R23 HL3 = 0.43

LOI R22 / R23 HL3 = 33,8 %

Ds (max.) R22 / R23 HL3 = 63

### TECHNICAL INFORMATION

**Halogen-free**

DIN 53474

### CONFORMITY

**RoHS (EC Directive 2011/65/EC)**

### APPROVALS AND OPERATING PERMITS

**EU railway approval**

EN 45545-2 R22/R23 3x HL3

**CSA approval****cURus approval****Made in Germany**

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