



## Type VW 45° (metal thread)



### Product information

The VW 45° conduit fittings are made of specially modified polyamide 6, thermoplastic elastomer and nickel-plated brass. The materials are halogen, phosphor and cadmium-free.

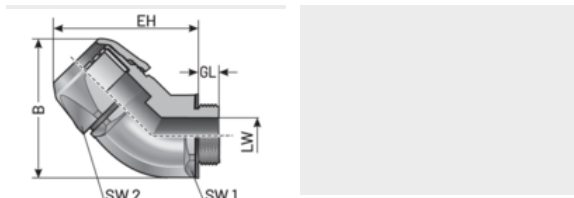
The VW 45° conduit fittings feature the following advantages:

- 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
- NFPA 130: ASTM E 162, ASTM E 662

### Information, conformities and approvals



Article	Order No.	Color	UV	Connecting thread	Suitable for Murrflex	EH mm	GL mm	LW mm	B mm	SW 1 / 2 mm	PU pcs.
VW 45 M12-M 1) 1)**	83513252	Black	✓	M12x1,5	M12/P09	38	12	7.2	36	21 / 21	50
VW 45 M16-M 1)	83513254	Black	✓	M16x1,5	M16/P11	45	12	10.5	43	27 / 27	50
VW 45 M20-M 1)	83513256	Black	✓	M20x1,5	M20/P16	56	13	14.6	52	34 / 34	50
VW 45 M25-M 1)	83513258	Black	✓	M25x1,5	M25/P21	65	13	18.7	65	41 / 41	25
VW 45 M32-M 1)	83513260	Black	✓	M32x1,5	M32/P29	77	14	25.5	79	50 / 50	25
VW 45 M40-M 2)	83513262	Black	✓	M40x1,5	M40/P36	90	17	33	95	60 / 60	25
VW 45 M50-M 1)	83513264	Black	✓	M50x1,5	M50/P48	105	17	42	115	75 / 75	10
VW 45 M16-M 1) 1)**	83513214	Gray	✗	M16x1,5	M16/P11	45	12	10.5	43	27 / 27	50
VW 45 M20-M 3) 1)**	83513216	Gray	✗	M20x1,5	M20/P16	56	13	14.6	52	34 / 34	50
VW 45 M32-M 1) 1)**	83513220	Gray	✗	M32x1,5	M32/P29	77	14	25.5	79	50 / 50	25
VW 45 P16-M 1)	83513656	Black	✓	PG 16	M20/P16	56	13	14.7	52	34 / 34	50
VW 45 P09-M 1) 1)**	83513612	Gray	✗	PG 09	M12/P09	38	12	7.2	36	21 / 21	50
VW 45 P11-M 1) 1)**	83513614	Gray	✗	PG 11	M16/P11	45	12	10.5	43	27 / 27	50



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VW 45 P16-M 1) 1**)	83513616	Gray	✗	PG 16	M20/P16	56	13	14.7	52	34 / 34	50
VW 45 P21-M 1) 1**)	83513618	Gray	✗	PG 21	M25/P21	65	13	18.7	65	41 / 41	25
VW 45 P29-M 1) 1**)	83513620	Gray	✗	PG 29	M32/P29	77	14	25.5	79	50 / 50	25
VW 45 P36-M 2) 1**)	83513622	Gray	✗	PG 36	M40/P36	90	17	33	95	60 / 60	25
VW 45 P48-M 1) 1**)	83513624	Gray	✗	PG 48	M50/P48	105	17	42	115	75 / 75	10
VW 45 NPT 3/8"- M 1) 1**)	83514050	Black	✓	3/8"	M16/P11	45	12	10.5	43	24 / 24	50
VW 45 NPT 1/2"- M 1) 1**)	83514052	Black	✓	1/2"	M20/P16	56	13	14.6	52	33 / 33	50
VW 45 NPT 3/4"- M 1) 1**)	83514054	Black	✓	3/4"	M25/P21	65	13	18.7	65	41 / 41	25
VW 45 NPT 1"-M 1) 1**)	83514056	Black	✓	1"	M32/P29	77	14	25.5	79	50 / 50	25
VW 45 NPT 1 1/4"-M 2) 1**)	83514058	Black	✓	1 1/4"	M40/P36	90	17	33	95	60 / 60	25
VW 45 NPT 2"-M 1) 1**)	83514060	Black	✓	2"	M50/P48	105	17	42	115	75 / 75	10
VW 45 NPT 3/8"- M 1) 1**)	83514010	Gray	✗	3/8"	M16/P11	45	12	10.5	43	24 / 24	50
VW 45 NPT 1/2"- M 1) 1**)	83514012	Gray	✗	1/2"	M20/P16	56	13	14.6	52	33 / 33	50
VW 45 NPT 3/4"- M 1) 1**)	83514014	Gray	✗	3/4"	M25/P21	65	13	18.7	65	41 / 41	25
VW 45 NPT 1"-M 1) 1**)	83514016	Gray	✗	1"	M32/P29	77	14	25.5	79	50 / 50	25
VW 45 NPT 1 1/4"-M 2) 1**)	83514018	Gray	✗	1 1/4"	M40/P36	90	17	33	95	60 / 60	25
VW 45 NPT 2"-M 1) 1**)	83514020	Gray	✗	2"	M50/P48	105	17	42	115	75 / 75	10

1) With cURus- approval  
2) With CSA- and cURus- approval  
3) With cURus approval, - min. order quantity 750 pcs

1\*\*) No stock goods, delivery time and minimum order quantities upon request

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### Material properties



Fitting: mod. polyamide PA 6  
Connecting thread Brass nickel-plated mod. polyamide PA 6  
Brass nickel-plated

### Thermal properties



Temperature / temperature range  
-40 °C - 110 °C / short term: 140 °C

### Protection class



Protection class  
IP68 up to 6 bar

### Fire properties



Fire classification  
acc. to UL94: V0 self-extinguishing



Fire properties as per EN 45545-2  
C.I.T. R22 / R23 HL3 :0,58 NF X 70-100-1/-2 600°C (1112 °F)  
LOI R22 / R23 HL3 :≥ 32 % ISO 4589-2  
Ds (max.) R22 / R23 HL3 :57 ISO 5659-2 (25 KW/m<sup>2</sup>)



Fire properties as per NFPA  
ASTM E 162  
ASTM E 1354  
ASTM E 662  
Boeing BSS 7239  
Boeing BSS 7242  
Bombardier SMP 800-C



Smoke emission class  
SR2 DIN 54837 / 5510-2



Flammability classification  
S4 DIN 5510-2

### Chemical resistances



Resistant to:  
Alcohol  
Greases  
Fuels  
Mineral oils

### Technical information



Halogen-free



## Type VW 45° (metal thread)

### Conformity



RoHS (EC Directive 2011/65/EU)

### Approvals and operating permits



EU railway approval



CSA approval



cURus approval

### Classification

ETIM 9: EC001176  
ECLASS 14: 27430312

### General information



Made in Germany