

# PRODUKTDATENBLATT PRODUCT DATA SHEET



IP 40 ...  
IP 66



**Metall-Sicherheitsverschraubung Winkel 90°, Außengewinde**  
Metal connector, safety-type, elbow 90°, outer thread

USW



Nr.: 5010 ...  
5011 ...

Revision A5 Okt 2018

## BESCHREIBUNG

<b>Werkstoff</b>	<b>Gehäuse</b>	Messing vernickelt
	<b>Druckmutter</b>	Messing vernickelt
	<b>Druckring [MSD]</b>	Messing
	<b>Dichtring</b>	TPE oder PTFE
	<b>Innentülle</b>	Messing oder Kunststoff
	<b>O-Ring</b>	NBR
<b>Temperaturbereich</b>	- 40°C ... +125°C   +250°C [MSD]	
<b>Dichtigkeit</b>	IP 40 – IP 66 nach EN 60529	

### Konstruktion

Verschraubungsgehäuse mit Sechskantschlüsselfläche, feststehendes Außengewinde metrisch nach EN 60423 oder PG nach DIN 40430, Sechskant-Druckmutter, Dichtring aus Kunststoff oder Messing-Druckring, O-Ring und Innentülle aus Metall oder Kunststoff

### Eigenschaften

- hoher Staub- | Flüssigkeitsschutz
- kraftschlüssige Verbindung von Schlauch und Verschraubung
- einwandfreie Erdung
- Abdeckung der Schlauchenden
- vibrations- und zugfest
- REACH und RoHS konform

### Wichtig

Die Funktionssicherheit der Verschraubung ist nur mit entsprechender Innentülle gewährleistet. Für EMV-Verwendungen bitte die Montageanleitung beachten.

## DESCRIPTION

<b>Material</b>	<b>Connector body</b>	nickel-plated brass
	<b>Pressure nut</b>	nickel-plated brass
	<b>Thrust collar [MSD]</b>	brass
	<b>Sealing ring</b>	TPE or PTFE
	<b>Ferrule</b>	brass or plastics
	<b>O-ring</b>	NBR
<b>Temperature range</b>	- 40°C ... +125°C   +250°C [MSD]	
<b>IP – rate</b>	IP 40 – IP 66 acc. to EN 60529	

### Construction

Connector body with hexagonal wrench surface, fixed metric outer thread acc. to EN 60423 or PG acc. to DIN 40430, hexagon pressure nut, plastic seal or brass thrust collar, O-ring and ferrule made of metal or plastics

### Properties

- highly watertight and dustproof
- friction-type locking of conduit and connector
- correct grounding
- covered conduit ends
- vibration- and tension proof
- REACH and RoHS compliant

### Important

Security of the connector is only guaranteed with the corresponding ferrule. For EMC-usage please see assembly instructions.

## EINSATZGEBIETE

- Maschinen- und Anlagenbau
- Elektroinstallationen im Maschinen- und Anlagenbau nach DIN EN 60204

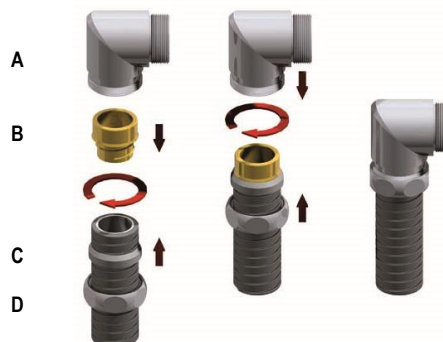
## APPLICATIONS

- Machine and plant constructions
- Electrical installations for application rules machine and plant constructions acc. to DIN EN 60204

## AUFBAU

- A =** Verschraubungsgehäuse mit montiertem O-Ring  
Connector body with mounted o-ring
- B =** Innentülle  
Ferrule
- C =** Dichtring oder Messing-Druckring  
Sealing or brass thrust collar
- D =** Druckmutter  
Pressure nut

## STRUCTURE



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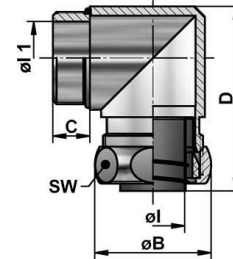


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## ABMESSUNGEN

## DIMENSIONS



AD	OD	FLEXA No		FLEXA No.										
<b>USW-M</b>		<b>SPR-AS</b> <b>SPR-VA</b>		<b>SPR-PA</b> <b>SPR-PU-AS</b> <b>SPR-PU-F</b> <b>SPR-PVC-AS</b>										
	<b>Metr.</b> EN 60423	<b>[IP 40]</b>	<b>mm</b>	<b>Ø l</b> <b>mm</b>	<b>[IP 65]</b>	<b>mm</b>	<b>Ø l</b> <b>mm</b>	<b>Ø B</b> <b>mm</b>	<b>C</b> <b>mm</b>	<b>D</b> <b>mm</b>	<b>SW</b> <b>mm</b>	<b>kg 100</b>	<b>St.</b> <b>Pcs.</b>	
<b>10</b>	<b>M 12 x 1,5</b>	5010.527.012	8 x 10	6,5	5010.528.012	7 x 10	6,0	19,0	8,0	32,0	17	2,800	25	
<b>14</b>	<b>M 16 x 1,5</b>	5010.527.016	11 x 14	10,0	5010.528.016	10 x 14	8,5	23,0	8,0	36,0	21	3,600	25	
<b>17</b>	<b>M 20 x 1,5</b>	5010.527.020	14 x 17	12,5	5010.528.020	13 x 17	11,5	27,0	8,0	38,0	25	5,900	25	
<b>21</b>	<b>M 25 x 1,5</b>	5010.527.025	18 x 21	16,5	5010.528.025	17 x 21	15,5	31,0	10,0	45,0	29	10,000	25	
<b>27</b>	<b>M 32 x 1,5</b>	5010.527.032	23 x 27	21,5	5010.528.032	22 x 27	20,5	39,0	10,0	57,0	36	13,100	10	
<b>36</b>	<b>M 40 x 1,5</b>	5010.527.040	31 x 36	29,5	5010.528.040	29 x 36	27,5	48,0	10,0	67,0	45	20,700	10	
<b>45</b>	<b>M 50 x 1,5</b>	5010.527.050	40 x 45	38,0	5010.528.050	38 x 45	36,5	57,0	12,0	77,0	54	26,900	10	
<b>56</b>	<b>M 63 x 1,5</b>	5010.527.063	51 x 56	48,0	5010.528.063	49 x 56	47,0	70,0	12,0	84,0	66	32,400	2	
<b>USW-M</b>		<b>FLEXAgraff®-AS</b> <b>FLEXAgraff®-VA</b>		<b>FLEXAgraff®-PU-AS</b> <b>FLEXAgraff®-PU-F</b>										
	<b>Metr.</b> EN 60423	<b>[IP 40]</b>		<b>[IP 65]</b>										
<b>10</b>	<b>M 12 x 1,5</b>	5010.527.012	8 x 10	6,5	5010.528.012	7 x 10	6,0	19,0	8,0	32,0	17	2,800	25	
<b>14</b>	<b>M 16 x 1,5</b>	5010.539.016	12 x 14	10,5	5010.527.016	10 x 14	10,0	23,0	8,0	36,0	21	3,600	25	
<b>17</b>	<b>M 20 x 1,5</b>	5010.527.020	14 x 17	12,5	5010.528.020	13 x 17	11,5	27,0	8,0	38,0	25	5,900	25	
<b>21</b>	<b>M 25 x 1,5</b>	5010.527.025	18 x 21	16,5	5010.528.025	17 x 21	15,5	31,0	10,0	45,0	29	10,000	25	
<b>27</b>	<b>M 32 x 1,5</b>	5010.539.032	24 x 27	22,5	5010.540.032	23 x 27	21,5	39,0	10,0	57,0	36	13,100	10	
<b>36</b>	<b>M 40 x 1,5</b>	5010.527.040	31 x 36	29,5	5010.528.040	29 x 36	27,5	48,0	10,0	67,0	45	20,700	10	
<b>45</b>	<b>M 50 x 1,5</b>	5010.527.050	40 x 45	38,0	5010.528.050	38 x 45	36,5	57,0	12,0	77,0	54	26,900	10	
<b>56</b>	<b>M 63 x 1,5</b>	5010.527.063	51 x 56	48,0	5010.528.063	49 x 56	47,0	70,0	12,0	84,0	66	32,400	2	
<b>USW-M</b>		<b>AIRflex®-KUW-PVC-AS</b> <b>AIRflex®-KUW-PU-AS</b> <b>AIRflex®-GRS [IP 65]</b> <b>AIRflex®-K</b>		<b>FLEXAgraff®-SI-ASF</b>										
	<b>Metr.</b> EN 60423	<b>[IP 54]</b>		<b>[IP 66]</b>										
<b>10</b>	<b>M 12 x 1,5</b>	5010.530.012	7 x 10	6,0	5010.537.012	6 x 10	5,0	19,0	8,0	32,0	17	2,800	25	
<b>14</b>	<b>M 16 x 1,5</b>	5010.530.016	10 x 14	9,0	5010.537.016	10 x 14	9,0	23,0	8,0	36,0	21	3,600	25	
<b>17</b>	<b>M 20 x 1,5</b>	5010.530.020	13 x 17	11,5	5010.537.020	12 x 17	10,5	27,0	8,0	38,0	25	5,900	25	
<b>21</b>	<b>M 25 x 1,5</b>	5010.530.025	16 x 21	14,5	5010.535.025	16 x 21	14,5	31,0	10,0	45,0	29	10,000	25	
<b>27</b>	<b>M 32 x 1,5</b>	5010.530.032	21 x 27	19,5	5010.501.032	21 x 27	19,5	39,0	10,0	57,0	36	13,100	10	
<b>36</b>	<b>M 40 x 1,5</b>	5010.530.040	29 x 36	26,5	5010.537.040	27 x 36	26,5	48,0	10,0	67,0	45	20,700	10	
<b>45</b>	<b>M 50 x 1,5</b>	5010.530.050	38 x 45	36,0	5010.537.050	36 x 45	34,5	57,0	12,0	77,0	54	26,900	10	
<b>56</b>	<b>M 63 x 1,5</b>	5010.530.063	48 x 56	46,0	5010.537.163	47 x 56	45,5	70,0	12,0	84,0	66	32,400	2	

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USW

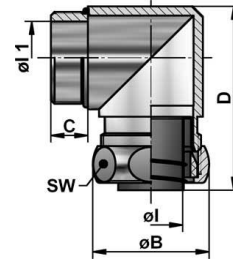


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5011 ...

Revision A5 Okt 2018

## ABMESSUNGEN

## DIMENSIONS



AD OD		FLEXA No.			FLEXA No.								
<b>USW-M</b>		<b>FLEXAgraff®-CU-AS</b>			<b>SPR-CU-AS SPR-EDU-AS</b>							<b>mit MSD [EMV] with MSD [EMC]</b>	
	Metr. EN 60423	[IP 40]	mm	Ø I mm	[IP 40]	mm	Ø I mm	Ø B mm	C mm	D mm	SW mm	kg/100	St. Pcs.
<b>10</b>	M 12 x 1,5	5011.528.012	7 x 10	6,0	5011.528.012	7 x 10	6,0	19,0	8,0	32,0	17	2,800	25
<b>14</b>	M 16 x 1,5	5011.527.016	11 x 14	10,0	5011.528.016	10 x 14	8,5	23,0	8,0	36,0	21	3,600	25
<b>17</b>	M 20 x 1,5	5011.528.020	13 x 17	11,5	5011.528.020	13 x 17	11,5	27,0	8,0	38,0	25	5,900	25
<b>21</b>	M 25 x 1,5	5011.528.025	17 x 21	15,5	5011.528.025	17 x 21	15,5	31,0	10,0	45,0	29	10,000	25
<b>27</b>	M 32 x 1,5	5011.540.032	23 x 27	21,5	5011.528.032	22 x 27	20,5	39,0	10,0	57,0	36	13,100	10
<b>36</b>	M 40 x 1,5	5011.528.040	29 x 36	27,5	5011.528.040	29 x 36	27,5	48,0	10,0	67,0	45	20,700	10
<b>45</b>	M 50 x 1,5	5011.528.050	38 x 45	36,5	5011.528.050	38 x 45	36,5	57,0	12,0	77,0	54	26,900	10
<b>56</b>	M 63 x 1,5	5011.528.063	49 x 56	47,0	5011.528.063	51 x 56	49,0	70,0	12,0	84,0	66	32,400	2
<b>USW-M</b>		<b>AIRflex®-KUW-EDU</b>			<b>SPR-PVC-EDU-AS</b>							<b>mit MSD [EMV] with MSD [EMC]</b>	
	Metr. EN 60423	[IP 54]	mm	Ø I mm	[IP 54]	mm	Ø I mm	Ø B mm	C mm	D mm	SW mm	kg/100	St. Pcs.
<b>14</b>	M 16 x 1,5	5011.528.016	9 x 14	8,5	5011.528.016	10 x 14	8,5	23,0	8,0	36,0	21	3,600	25
<b>17</b>	M 20 x 1,5	5011.535.020	12 x 17	11,0	5011.535.020	12 x 17	11,0	27,0	8,0	38,0	25	5,900	25
<b>21</b>	M 25 x 1,5	5011.535.025	15 x 21	14,5	5011.535.025	16 x 21	14,5	31,0	10,0	45,0	29	10,000	25
<b>27</b>	M 32 x 1,5	5011.535.032	20 x 27	19,5	5011.501.032	21 x 27	19,5	39,0	10,0	57,0	36	13,100	10
<b>36</b>	M 40 x 1,5	5011.528.040	28 x 36	27,5	5011.535.040	28 x 36	27,5	48,0	10,0	67,0	45	20,700	10
<b>45</b>	M 50 x 1,5	5011.535.050	37 x 45	35,5	5011.535.050	37 x 45	35,5	57,0	12,0	77,0	54	26,900	10
<b>56</b>	M 63 x 1,5	5011.535.063	48 x 56	46,0	5011.535.063	48 x 56	46,0	70,0	12,0	84,0	66	32,400	2



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Metal connector, safety-type, elbow 90°, outer thread

USW

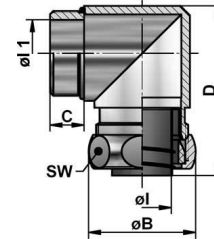


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## ABMESSUNGEN

## DIMENSIONS



AD  
OD



FLEXA No.



FLEXA No.



USW-P

SPR-AS  
SPR-VA

SPR-PA  
SPR-PU-AS  
SPR-PU-F  
SPR-PVC-AS

	PG DIN 40430	[IP 40]	mm	Ø I mm	[IP 40]	mm	Ø I mm	Ø B mm	C mm	D mm	SW mm	kg 100	St. Pcs.
10	7	5010.227.007	8 x 10	6,5	5010.228.007	7 x 10	6,0	19,0	9,0	36,0	17	2,800	25
14	9	5010.227.009	11 x 14	10,0	5010.228.009	10 x 14	8,5	23,0	9,0	41,0	21	3,600	25
17	11	5010.227.011	14 x 17	12,5	5010.228.011	13 x 17	11,5	27,0	9,0	45,0	25	5,900	25
19	13,5	5010.227.013	16 x 19	14,5	5010.228.013	15 x 19	13,5	29,0	10,0	49,5	27	7,700	25
21	16	5010.227.016	18 x 21	16,5	5010.228.016	17 x 21	15,5	31,0	10,0	52,0	29	10,000	25
27	21	5010.227.021	23 x 27	21,5	5010.228.021	22 x 27	20,5	39,0	10,5	58,0	36	13,100	10
36	29	5010.227.029	31 x 36	29,5	5010.228.029	29 x 36	27,5	48,0	11,0	72,0	45	23,300	10

USW-P

FLEXAgraff®-AS  
FLEXAgraff®-VA

FLEXAgraff®-PU-AS  
FLEXAgraff®-PU-F

	PG DIN 40430	[IP 40]	mm	Ø I mm	[IP 65]	mm	Ø I mm	Ø B mm	C mm	D mm	SW mm	kg 100	St. Pcs.
10	7	5010.227.007	8 x 10	6,5	5010.228.007	7 x 10	6,0	19,0	9,0	36,0	17	2,800	25
14	9	5010.239.009	12 x 14	10,5	5010.227.009	10 x 14	10,0	23,0	9,0	41,0	21	3,600	25
17	11	5010.227.011	14 x 17	12,5	5010.228.011	13 x 17	11,5	27,0	9,0	45,0	25	5,900	25
19	13,5	5010.227.013	16 x 19	14,5	5010.228.013	15 x 19	13,5	29,0	10,0	49,5	27	7,700	25
21	16	5010.227.016	18 x 21	16,5	5010.228.016	17 x 21	15,5	31,0	10,0	52,0	29	10,000	25
27	21	5010.239.021	24 x 27	22,5	5010.240.021	23 x 27	21,5	39,0	10,5	58,0	36	13,100	10
36	29	5010.227.029	31 x 36	29,5	5010.228.029	29 x 36	27,5	48,0	11,0	72,0	45	23,300	10

USW-P

AIRflex®-KUW-PVC-AS  
AIRflex®-KUW-PU-AS  
AIRflex®-GRS [IP 65]  
AIRflex®-K

FLEXAgraff®-SI-ASF

	PG DIN 40430	[IP 54]	mm	Ø I mm	[IP 66]	mm	Ø I mm	Ø B mm	C mm	D mm	SW mm	kg 100	St. Pcs.
10	7	5010.230.007	7 x 10	6,0	5010.237.007	6 x 10	5,0	19,0	9,0	36,0	17	2,800	25
14	9	5010.230.009	10 x 14	9,0	5010.237.009	10 x 14	9,0	23,0	9,0	41,0	21	3,600	25
17	11	5010.230.011	13 x 17	11,5	5010.237.011	12 x 17	10,5	27,0	9,0	45,0	25	5,900	25
19	13,5	5010.230.013	15 x 19	13,0	5010.237.013	14 x 19	12,5	29,0	10,0	49,5	27	7,700	25
21	16	5010.230.016	16 x 21	14,5	5010.235.016	16 x 21	14,5	31,0	10,0	52,0	29	10,000	25
27	21	5010.230.021	21 x 27	19,5	5010.201.021	21 x 27	19,5	39,0	10,5	58,0	36	13,100	10
36	29	5010.230.029	29 x 36	26,5	5010.237.029	27 x 36	26,5	48,0	11,0	72,0	45	23,300	10

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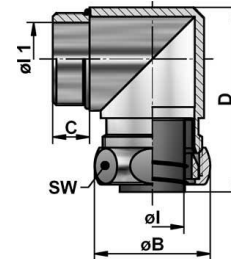


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## DIMENSIONS



AD  
OD



FLEXA No.



FLEXA No.



USW-P

FLEXAgraff®-CU-AS

SPR-CU-AS  
SPR-EDU-AS

mit MSD [EMV]  
with MSD [EMC]

	PG DIN 40430	[IP 40]	mm	Ø l mm	[IP 40]	mm	Ø l mm	Ø B mm	C mm	D mm	SW mm	kg/100	St. Pcs.
10	7	5011.228.007	7 x 10	6,0	5011.228.007	7 x 10	6,0	19,0	9,0	36,0	17	2,800	25
14	9	5011.227.009	11 x 14	10,0	5011.228.009	10 x 14	8,5	23,0	9,0	41,0	21	3,600	25
17	11	5011.228.011	13 x 17	11,5	5011.228.011	13 x 17	11,5	27,0	9,0	45,0	25	5,900	25
19	13,5	5011.228.013	15 x 19	13,5	5011.228.013	15 x 19	13,5	29,0	10,0	49,5	27	7,700	25
21	16	5011.228.016	17 x 21	15,5	5011.228.016	17 x 21	15,5	31,0	10,0	52,0	29	10,000	25
27	21	5011.240.021	23 x 27	21,5	5011.228.021	22 x 27	20,5	39,0	10,5	58,0	36	13,400	10
36	29	5011.228.029	29 x 36	27,5	5011.228.029	29 x 36	27,5	48,0	11,0	72,0	45	23,300	10

USW-P

AIRflex®-KUW-EDU

SPR-PVC-EDU-AS

mit MSD [EMV]  
with MSD [EMC]

	PG DIN 40430	[IP 54]	mm	Ø l mm	[IP 54]	mm	Ø l mm	Ø B mm	C mm	D mm	SW mm	kg/100	St. Pcs.
14	9	5011.228.009	9 x 14	8,5	5011.228.009	9 x 14	8,5	23,0	9,0	41,0	21	3,600	25
17	11	5011.235.011	12 x 17	11,0	5011.235.011	12 x 17	11,0	27,0	9,0	45,0	25	5,900	25
19	13,5	5011.235.013	14 x 19	13,0	5011.235.013	14 x 19	13,0	29,0	10,0	49,5	27	7,700	25
21	16	5011.235.016	15 x 21	14,5	5011.235.016	16 x 21	14,5	31,0	10,0	52,0	29	10,000	25
27	21	5011.235.021	20 x 27	19,5	5011.201.021	21 x 27	19,5	39,0	10,5	58,0	36	13,400	10
36	29	5011.228.029	28 x 36	27,5	5011.228.029	28 x 36	27,5	48,0	11,0	72,0	45	23,300	10

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