

2115 - UPE - 32 SD - P

EN 12115 EPDM 30 SD - PH 16 - 80 A2.3

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding

2115/2011 - UPE-SD - 32 - 180° - G - 17



Acid & Chemicals



ENGINEERING YOUR SUCCESS.



G – Acid & Chemicals

Hose	ID Range (mm)	Temp. Range (°C)	Application
POLIAX D EN12115 LL	13 - 25	-35 / +100	chemical resistance table
POLIAX D EN 12115	19 - 100	-35 / +100	chemical resistance table
POLIAX D SM EN 12115	19 - 100	-35 / +100	chemical resistance table
POLIAX UPE CON EN 12115	19 - 100	-20 / +100	chemical resistance table
POLIAX UPE CON SM EN 12115	19 - 100	-20 / +100	chemical resistance table
POLIAX UPE CON SM EN 12115 OND	19 - 100	-20 / +100	chemical resistance table
FRUTPRESS N/L 50	10 - 16	-20 / +80	agricultural spray
FRUTPRESS N/L 100	10 - 13	-20 / +80	agricultural spray

WARNING!

If delivering chemicals over +25 °C (+77 °F), please contact us. Many chemical products can cause severe injuries to people or damage to property, and here are risks of environmental pollution in case of leakage or hose burst. All necessary measures must be taken in order to avoid accidents both during normal service operations and during hydrostatic tests, which must be carried out by trained personnel using suitable tools.



	Tube	Reinforcement	Cover	WP (bar)	Safety factor	Suction	Industry standard	Page
	EPM	textile + copper wires	EPDM	16	4		EN 12115	G4
	EPM	textile + copper wires	EPDM	16	4		EN 12115	G5
	EPM	textile + copper wires	EPDM	16	4	yes	EN 12115	G6
	UHMWPE	textile + copper wires	EPDM	16	4		EN 12115	G7
	UHMWPE	textile + copper wires	EPDM	16	4	yes	EN 12115	G8
	UHMWPE	textile + copper wires	EPDM	16	4	yes	EN12115	G9
	NBR	textile	EPDM/NBR	50	3			G10
	NBR	textile	EPDM/NBR	100	3			G10



POLIAX D EN 12115 LL

According to EN 12115

Suitable for delivery of highly aggressive chemicals, according to EN 12115.

Hose Construction

Tube: Black, smooth antistatic ($R < 1 \text{ M } \Omega/\text{m}$), EPM nitrosamine free rubber compound

Reinforcement: Synthetic textile yarns and built-in copper wires to facilitate the electrical connection between hose and end couplings

Cover: Black, antistatic ($R < 1 \text{ M } \Omega/\text{m}$), EPDM rubber compound, heat, abrasion, ageing and weather resistant



- Available in long continuous length
- Nitrosamine free
- In-plant and storage tank transfer
- Suitable for ATEX areas
- Burst Pressure Value 4:1



Tolerances

According to EN 12115

Refer to Technical Handbook on page TH34

Temperature Range

-35 °C (-31 °F) to +100 °C (+212 °F)

For aggressive chemicals and solvents the hose is intended to be used at room temperature. The hose can be cleaned and sterilized with usual detergents or steam – a temperature of +130 °C (+266 °F) for short periods.

Part Number	I.D. (mm)	O.D. (mm)	Working Pressure	Working Pressure			Weight	min. Bend Radius	in Stock
				MPa	psi	bar			
IH30810130/40	13	23	1.6	232.0	16	0.33	90	Y	
IH30810132/40	19	31	1.6	232.0	16	0.55	125	Y	
IH30810133/40	25	37	1.6	232.0	16	0.73	150	Y	

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POLIAX D EN 12115

According to EN 12115

Suitable for delivery of highly aggressive chemicals, according to EN 12115,

Hose Construction

- Tube:** Black, smooth antistatic EPM nitrosamine free rubber compound
- Reinforcement:** Synthetic textile fabrics and built-in copper wires to facilitate the electrical connection between hose and end couplings
- Cover:** Black, antistatic ($R < 1 \text{ M } \Omega/\text{m}$), EPDM rubber compound, heat, abrasion, ageing and weather resistant



- In-plant and storage tank transfer
- Suitable for ATEX areas
- Meets TRbF 131 part 2 par 5.5 (flame resistance)
- Burst Pressure Value 4:1

Tolerances






According to EN 12115

Refer to Technical Handbook on page TH34

Temperature Range

-35 °C (-31 °F) to +100 °C (+212 °F)

For aggressive chemicals and solvents the hose is intended to be used at room temperature. The hose can be cleaned and sterilized with usual detergents or steam – a temperature of +130 °C (+266 °F) for short periods.

Part Number	 I.D. (mm)	 O.D. (mm)	 Working Pressure			 Weight kg/m	 min. Bend Radius mm	in Stock
			MPa	psi	bar			
IH36810130/40	19	31	1.6	232.0	16	0.56	125	Y
IH36810131/40	25	37	1.6	232.0	16	0.71	150	Y
IH36810132/40	32	44	1.6	232.0	16	0.86	175	Y
IH36810133/40	38	51	1.6	232.0	16	1.11	225	Y
IH36810134/40	50	66	1.6	232.0	16	1.72	275	Y
IH36810135/40	63.5	79	1.6	232.0	16	2.10	300	N
IH36810136/40	75	91	1.6	232.0	16	2.56	350	N
IH36810137/40	100	116	1.2	180.0	12	3.38	450	N

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POLIAX D SM EN 12115

According to EN 12115

Suitable for suction and delivery of highly aggressive chemicals, according to EN 12115.

Hose Construction

- Tube:** Black, smooth antistatic EPM nitrosamine free rubber compound
- Reinforcement:** Synthetic textile fabrics, embedded steel wire helix and built-in copper wires to facilitate the electrical connection between hose and end couplings
- Cover:** Black, antistatic ($R < 1M \Omega/m$), EPDM rubber compound, heat, abrasion, ageing and weather resistant



- In-plant and storage tank transfer
- Flexibility and kink resistance
- Suitable for ATEX areas
- Meets TRbF 131 part 2 par 5.5 (flame resistance)
- Vacuum 0.9 bar up to 63.5 mm then 0.8 bar
- Burst Pressure Value 4:1

Tolerances






According to EN 12115

Refer to Technical Handbook on page TH34

Temperature Range

-35 °C (-31 °F) to +100 °C (+212 °F)

For aggressive chemicals and solvents the hose is intended to be used at room temperature. The hose can be cleaned and sterilized with usual detergents or steam – a temperature of +130 °C (+266 °F) for short periods.

Part Number	 I.D. (mm)	 O.D. (mm)	 Working Pressure			 Weight kg/m	 min. Bend Radius mm	in Stock
			MPa	psi	bar			
IH36810111/40	19	31	1.6	232.0	16	0.70	125	Y
IH36810112/40	25	37	1.6	232.0	16	0.92	150	Y
IH36810113/40	32	44	1.6	232.0	16	1.09	175	Y
IH36810114/40	38	51	1.6	232.0	16	1.35	225	Y
IH36810115/40	50	66	1.6	232.0	16	1.84	275	Y
IH36810116/40	63.5	79	1.6	232.0	16	2.54	300	Y
IH36810117/40	75	91	1.6	232.0	16	3.12	350	Y
IH36810118/40	100	116	1.2	180.0	12	4.41	450	N

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POLIAX UPE CON EN 12115

According to EN 12115

POLIAX UPE CON EN 12115 is suitable for delivery of a wide range of highly aggressive chemicals such as most industrial acids, alkalis, oils, fuels and solvents. It can also be used as a flexible connections in paint plants.

Refer to the Chemical Resistant Chart to determine compatibility with specific chemicals. For severe or special applications – for tighter bending radius – or if in doubt, please ask our Technical Assistance.

Hose Construction

Tube: Lucent, black, smooth, conductive, ultra high molecular weight polyethylene (UHMWPE), suitable for foodstuff contact according to FDA, EEC Directive, Italian Decrees

Reinforcement: Synthetic textile fabrics with built-in copper wires to allow the electrical connection between hose and couplings

Cover: Black, corrugated, antistatic (R < 1 M Ω/m), EPDM rubber compound, heat, abrasion, ageing and weather resistant



- In-plant and storage tank transfer
- Fits also foodstuffs according to FDA
- Suitable for ATEX areas
- Meets TRbF 131 part 2 par 5.5 (flame resistance)
- Burst Pressure Value 4:1

Temperature Range






-20 °C (+5 °F) to +100 °C (+212 °F)

For aggressive chemicals and solvents the hose is intended to be used at room temperature. The hose can be cleaned and sterilized with usual detergents or steam – a temperature of +130 °C (+266 °F) for short periods.

Tolerances

According to EN 12115

Refer to Technical Handbook on page TH34

Part Number	 I.D. (mm)	 O.D. (mm)	 Working Pressure	Working Pressure			 Weight	 min. Bend Radius	in Stock
				MPa	psi	bar			
IH36811590/40	19	31	1.6	232.0	16	0.61	125	N	
IH36811591/40	25	37	1.6	232.0	16	0.73	150	N	
IH36811592/40	32	44	1.6	232.0	16	0.90	175	N	
IH36811593/40	38	51	1.6	232.0	16	1.09	225	N	
IH36811594/40	50	66	1.6	232.0	16	1.80	275	N	
IH36811595/40	63.5	79	1.6	232.0	16	1.96	300	N	
IH36811596/40	75	91	1.6	232.0	16	2.47	350	N	
IH36811597/20	100	116	1.6	232.0	16	3.20	450	N	

WARNING!

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POLIAX UPE CON SM EN 12115

According to EN 12115

POLIAX UPE CON SM EN 12115 OND is a very flexible hose suitable for suction and delivery of a wide range of highly aggressive chemicals such as most industrial acids, alkalis, oils, fuels and solvents. It can also be used as a flexible connections in paint plants.

Refer to the Chemical Resistant Chart to determine compatibility with specific chemicals. For severe or special applications – for tighter bending radius – or if in doubt, please ask our Technical Assistance.

Hose Construction

- Tube:** White, smooth NBR rubber compound, non-toxic, odorless and taste-free.
Resistant to steam and hot water
- Reinforcement:** Synthetic textile yarns
- Cover:** Black, corrugated, antistatic (R < 1 M Ω/m), EPDM rubber compound, heat, abrasion, ageing and weather resistant



- High flexibility and kink resistance
- Fits also foodstuffs according to FDA
- Suitable for ATEX areas
- Meets TRbF 131 part 2 par 5.5 (flame resistance)
- Vacuum: 0.9 bar up to dn 63.5, 0.8 bar for larger sizes
- Burst Pressure Value 4:1

Temperature Range






-20 °C (+5 °F) to +100 °C (+212 °F)

For aggressive chemicals and solvents the hose is intended to be used at room temperature. The hose can be cleaned and sterilized with usual detergents or steam – a temperature of +130 °C (+266 °F) for short periods.

Tolerances

According to EN 12115

Refer to Technical Handbook on page TH34

Part Number	 I.D. (mm)	 O.D. (mm)	 Working Pressure			 Weight kg/m	 min. Bend Radius mm	in Stock
			MPa	psi	bar			
IH36811529/40	19	31	1.6	232.0	16	0.71	190	Y
IH36811530/40	25	37	1.6	232.0	16	0.87	230	Y
IH36811531/40	32	44	1.6	232.0	16	1.07	260	Y
IH36811532/40	38	51	1.6	232.0	16	1.35	340	Y
IH36811534/40	50	66	1.6	232.0	16	2.29	410	Y
IH36811535/40	63.5	79	1.6	232.0	16	2.51	450	Y
IH36811536/40	75	91	1.6	232.0	16	3.07	530	Y
IH36811538/20	100	116	1.2	180.0	12	4.43	680	N

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POLIAX UPE CON SM OND EN 12115

According to EN 12115

POLIAX UPE CON SM EN 12115 OND is a very flexible hose suitable for suction and delivery of a wide range of highly aggressive chemicals such as most industrial acids, alkalis, oils, fuels and solvents. It can also be used as a flexible connections in paint plants.

Refer to the Chemical Resistant Chart to determine compatibility with specific chemicals. For severe or special applications – for tighter bending radius – or if in doubt, please ask our Technical Assistance.

Hose Construction

- Tube:** Lucent, black, smooth, conductive, ultra high molecular weight polyethylene (UHMWPE), suitable for foodstuff contact according to FDA, EEC Directive, Italian Decrees
- Reinforcement:** Synthetic textile fabrics, embedded steel wire helix and built-in copper wires to allow the electrical connection between hose and couplings
- Cover:** Black, corrugated, antistatic ($R < 1 \text{ M } \Omega/\text{m}$), EPDM rubber compound, heat, abrasion, ageing and weather resistant



- Extreme flexibility, superior kink resistance, minimal force to bend
- Fits also foodstuffs according to FDA
- Suitable for ATEX areas
- Meets TRbF 131 part 2 par 5.5 (flame resistance)
- Vacuum: 0.9 bar up to dn 63.5, for larger sizes 0.8 bar
- Burst Pressure Value 4:1

Temperature Range






-20 °C (+5 °F) to +100 °C (+212 °F)

For aggressive chemicals and solvents the hose is intended to be used at room temperature. The hose can be cleaned and sterilized with usual detergents or steam – a temperature of +130 °C (+266 °F) for short periods.

Tolerances

According to EN 12115

Refer to Technical Handbook on page TH34

Part Number	 I.D. (mm)	 O.D. (mm)	 Working Pressure	Working Pressure			 Weight	 min. Bend Radius	in Stock
				MPa	psi	bar			
IH36811570/40	19	31	1.6	232.0	16	0.71	38	Y	
IH36811571/40	25	37	1.6	232.0	16	0.87	50	Y	
IH36811572/40	32	44	1.6	232.0	16	1.07	64	Y	
IH36811573/40	38	51	1.6	232.0	16	1.35	76	Y	
IH36811574/40	50	66	1.6	232.0	16	2.29	100	Y	
IH36811575/40	63.5	79	1.6	232.0	16	2.51	127	N	
IH36811576/40	75	91	1.6	232.0	16	3.07	150	N	
IH36811577/20	100	116	1.2	180.0	12	4.43	200	N	

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FRUTPRESS

Suitable for insecticides and herbicide agricultural sprays.

Hose Construction

- Tube:** Black, smooth, insecticide with solvent and herbicide resistant NBR rubber compound
- Reinforcement:** Synthetic textile yarns
- Cover:** Black, smooth: heat, abrasion and weather-resistant, EPDM/NBR rubber compound








- Good flexibility
- Pesticides and fertilizer too
- Agricultural, commercial and residential sprayers
- High working pressure
- Burst Pressure Value 3:1

Temperature Range

-20 °C (-4 °F) to +80 °C (+176 °F)

Tolerances

According to UNI EN ISO 1307
Refer to Technical Handbook on page TH34

Part Number				Working Pressure					in Stock
	I.D. (mm)	O.D. (mm)		MPa	psi	bar			
FRUTPRESS N/L 50									
IH30135002/100	10	19	5.0	725.0	50	0.28	60	Y	
IH30140040/80	16	26	5.0	725.0	50	0.46	100	Y	
FRUTPRESS N/L 100									
IH30136005/100	10	21	10.0	1450.0	100	0.37	60	Y	
IH30136010/80	13	24	10.0	1450.0	100	0.45	80	Y	