

2115 - UPE - 32 SD - P

EN 12115 EPDM 50 SD - PR 16 - BP 44.3

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

CARBOBLUE 20



Acid and Chemical Hoses



ENGINEERING YOUR SUCCESS.



▶ General Purpose



POLIAX D 10

Black, EPM rubber hose, available with an embedded wire helix (SM), suitable for aggressive chemicals (see Chemical Resistance Chart in our catalogue). I.D. from 20 to 50 mm; Working Pressure: 10 bar

▶ According to Norms



POLIAX D EN 12115

POLIAX D SM EN 12115

POLIAX UPE SM EN 12115

POLIAX UPE CON SM EN 12115



Black, EPM rubber hose (D), and ultra high molecular weight polyethylene translucent (UPE), suitable for suction and delivery of aggressive chemicals (D SM) and of a wide range of aggressive chemicals (UPE SM) (see Chemical Resistance Chart in our catalogue). I.D. from 19 to 100 mm; Working Pressure: 16 bar

▶ Additives



CARBOBLUE N/L 10 - 20

Specially designed for additive that reduce the amount of nitrogen oxide and its mixtures (NOx). Used in applications where there is a requirement for extracting NOx and dramatically reducing exhaust gas from diesel engines, to respect the parameters Euro IV and Euro V.



G – Acid and Chemical Hose

General Purpose

POLIAX D 10 ▶ G4

According to Norms

POLIAX D EN 12115 ▶ G5

POLIAX D SM EN 12115 ▶ G6

POLIAX UPE SM EN 12115 ▶ G7

POLIAX UPE CON SM EN 12115 ▶ G8

Additives

CARBOBLUE N/L 10 - 20 ▶ G9

To determine hose compatibility with specific chemical products, please refer to the enclosed Chemical Resistance Chart (page A6-A21).

For severe or special applications, and in case of any doubt, please ask for our technical assistance.

A

B

C

D

E

F

G

H

I

J

K

L

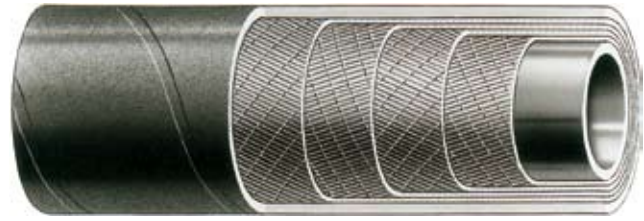
M

N

O

**POLIAX® D 10****Hose Construction**

- Tube:** Black, smooth antistatic EPM nitrosamine free rubber compound
- Reinforcement:** Synthetic textile fabrics
- Cover:** Black, antistatic ($R < 1 \text{ M}\Omega/\text{m}$), EPDM nitrosamine free rubber compound, abrasion and weather resistant

**Applications**

Suitable for delivery of aggressive chemicals.

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.

Tolerances

RMA steel mandrel

On inside diameter:

≤ I.D. 38 mm: ± 0,79 mm

> I.D. 38 mm: ± 1,59 mm

On outside diameter:

± 1,59 mm

Length tolerance:

± 1 %

WARNING

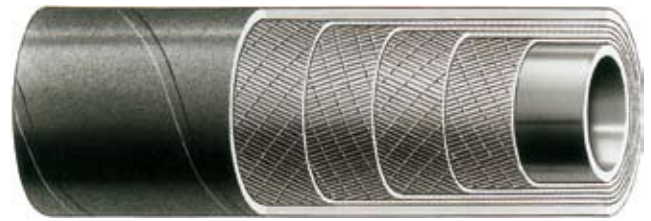
If delivering chemicals over +25 °C (+77 °F), please contact us. Many chemical products can cause severe injuries to people or damage to property, and here are risks of environmental pollution in case of leakage or hose burst. All necessary measures must be taken in order to avoid accidents both during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

IHXXXXXXXXXX Part Number/ Standard Length m	 I.D. mm	 O.D. mm	 Working Pressure			 Burst Pressure			 Weight kg/m	 min. Bend Radius mm
			MPa	psi	bar	MPa	psi	bar		
IH36810059/40	19	28	1,0	150,0	10	4,0	600,0	40	0,45	200
IH36810032/40	25	34	1,0	150,0	10	4,0	600,0	40	0,53	250
IH36810033/40	30	42	1,0	150,0	10	4,0	600,0	40	0,85	300
IH36810042/40	32	44	1,0	150,0	10	4,0	600,0	40	0,89	320
IH36810034/40	35	48	1,0	150,0	10	4,0	600,0	40	1,05	350
IH36810065/40	38	52	1,0	150,0	10	4,0	600,0	40	1,21	380
IH36810035/40	40	55	1,0	150,0	10	4,0	600,0	40	1,41	400
IH36810036/40	45	61	1,0	150,0	10	4,0	600,0	40	1,67	450
IH36810037/40	50	68	1,0	150,0	10	4,0	600,0	40	2,08	500



POLIAX® D EN 12115

Manufactured according to EN 12115,
meets TRbF 131 Part 2 par. 5.5 (flame resistance)



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

Applications

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

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.

Tolerances

According to EN 12115

- On inside diameter:**
- I.D. 19 - 38 mm: ± 0,50 mm
 - I.D. 50 - 51mm: ± 0,70 mm
 - I.D. 63,5 - 100 mm: ± 0,80 mm
- On outside diameter:**
- O.D. 31 - 51 mm: ± 1,00 mm
 - O.D. 66 - 92 mm: ± 1,20 mm
 - O.D. 116 - 118 mm: ± 1,60 mm
- Length tolerance:** ± 1 %



WARNING

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

IHXXXXXXXXXX Part Number/ Standard Length m	 I.D. mm	 O.D.* mm	 Working Pressure			 Burst Pressure			 Weight kg/m	 min. Bend Radius mm
			MPa	psi	bar	MPa	psi	bar		
IH36810130/40	19	31	1,6	232,0	16	6,4	928,0	64	0,56	125
IH36810131/40	25	37	1,6	232,0	16	6,4	928,0	64	0,71	150
IH36810132/40	32	44	1,6	232,0	16	6,4	928,0	64	0,86	175
IH36810133/40	38	51	1,6	232,0	16	6,4	928,0	64	1,11	225
IH36810134/40	50	66	1,6	232,0	16	6,4	928,0	64	1,72	275
IH36810135/40	63,5	79	1,6	232,0	16	6,4	928,0	64	2,10	300
IH36810136/40	75	91	1,6	232,0	16	6,4	928,0	64	2,56	350
IH36810137/40	100	116	1,2	180,0	12	4,8	696,0	48	3,38	450

EN 12115 EPDM - I.D. - D - PN 16 - BP 64 bar - Q - Quarter/Year MADE IN ITALY Parker ITR

**POLIAX® D SM EN 12115**

Manufactured according to EN 12115,
meets TRbF 131 Teil 2 par. 5.5
(flame resistance)

**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

Suction

- ≤ I.D. 63,5 mm: 0,90 bar (675 mm Hg)
> I.D. 63,5 mm: 0,80 bar (600 mm Hg)

Tolerances

According to EN 12115

On inside diameter:

- I.D. 19 - 38 mm: ± 0,50 mm
I.D. 50 mm: ± 0,70 mm
I.D. 63,5 - 100 mm: ± 0,80 mm

On outside diameter:

- O.D. 31 - 51 mm: ± 1,00 mm
O.D. 66 - 91 mm: ± 1,20 mm
O.D. 116 mm: ± 1,60 mm
Length tolerance: ± 1 %

Applications

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







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.

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.

IHXXXXXXXXXX Part Number/ Standard Length m	 I.D. mm	 O.D. mm	 Working Pressure			 Burst Pressure			 Weight kg/m	 min. Bend Radius mm
			MPa	psi	bar	MPa	psi	bar		
IH36810111/40	19	31	1,6	232,0	16	6,4	928,0	64	0,70	125
IH36810112/40	25	37	1,6	232,0	16	6,4	928,0	64	0,92	150
IH36810113/40	32	44	1,6	232,0	16	6,4	928,0	64	1,09	175
IH36810114/40	38	51	1,6	232,0	16	6,4	928,0	64	1,35	225
IH36810115/40	50	66	1,6	232,0	16	6,4	928,0	64	1,84	275
IH36810116/40	63,5	79	1,6	232,0	16	6,4	928,0	64	2,54	300
IH36810117/40	75	91	1,6	232,0	16	6,4	928,0	64	3,12	350
IH36810118/40	100	116	1,2	180,0	12	4,8	696,0	48	4,41	450

EN 12115 EPDM - I.D. - SD - PN .. - BP .. bar - Q - Quarter/Year - MADE IN ITALY Parker ITR

POLIAX® UPE SM EN 12115

Manufactured according to EN 12115, meets TRbF 131 Part 2 par. 5.5 (flame resistance)



Hose Construction

- Tube:** Translucent, smooth, non-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, antistatic ($R < 1 \text{ M } \Omega/\text{m}$), EPDM rubber compound, heat, abrasion, ageing and weather resistant. Other colours available on request

Temperature Range

-15 °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.

Suction

- ≤ I.D. 63,5 mm: 0,90 bar (675 mm Hg)
- > I.D. 63,5 mm: 0,80 bar (600 mm Hg)

Applications

POLIAX UPE SM EN 12115 is 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. Suitable for suction and delivery of all foodstuff containing also animal or vegetable fats and oils, according to national and international norms. 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.







Tolerances

- According to EN 12115
- On inside diameter:**
 - I.D. 19 - 38 mm: ± 0,50 mm
 - I.D. 50 mm: ± 0,70 mm
 - I.D. 63,5 - 100 mm: ± 0,80 mm
 - On outside diameter:**
 - O.D. 31 - 51 mm: ± 1,00 mm
 - O.D. 66 - 91 mm: ± 1,20 mm
 - > O.D. 91 mm: ± 1,60 mm
 - Length tolerance:** ± 1 %



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.

IHXXXXXXXXXX Part Number/ Standard Length m	 I.D. mm	 O.D.* mm	 Working Pressure			 Burst Pressure			 Weight kg/m	 min. Bend Radius mm
			MPa	psi	bar	MPa	psi	bar		
POLIAX UPE SM EN 12115										
IH36811501/40	19	31	1,6	232,0	16	6,4	928,0	64	0,71	190
IH36811502/40	25	37	1,6	232,0	16	6,4	928,0	64	0,87	230
IH36811503/40	32	44	1,6	232,0	16	6,4	928,0	64	1,07	260
IH36811504/40	38	51	1,6	232,0	16	6,4	928,0	64	1,35	340
IH36811505/40	50	66	1,6	232,0	16	6,4	928,0	64	2,29	410
IH36811507/40	63,5	79	1,6	232,0	16	6,4	928,0	64	2,51	450
IH36811508/40	75	91	1,6	232,0	16	6,4	928,0	64	3,07	530
IH36811510/20	100	116	1,2	180,0	12	4,8	696,0	48	4,43	680

EN 12115 UPE - I. D. - SD - PN .. - BP .. bar - M - TRbF 131/T2 P.5.5 - Quarter/Year - MADE IN ITALY Parker ITR

**POLIAX UPE CON SM EN 12115**

Manufactured according to EN 12115, meets TRbF 131 Part 2 par. 5.5 (flame resistance)

**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, antistatic ($R < 1 \text{ M } \Omega/\text{m}$), EPDM rubber compound, heat, abrasion, ageing and weather resistant. Other colours available on request

Temperature Range

-15 °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.

Suction

≤ I.D. 63,5 mm: 0,90 bar (675 mm Hg)
> I.D. 63,5 mm: 0,80 bar (600 mm Hg)

Tolerances

According to EN 12115

On inside diameter:

I.D. 19 - 38 mm: ± 0,50 mm
I.D. 50 mm: ± 0,70 mm
I.D. 63,5 - 100 mm: ± 0,80 mm

On outside diameter:

O.D. 31 - 51 mm: ± 1,00 mm
O.D. 66 - 91 mm: ± 1,20 mm
> O.D. 91 mm: ± 1,60 mm

Length tolerance:

± 1 %

Applications

POLIAX UPE CON SM EN 12115 is 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. Suitable for suction and delivery of all foodstuff containing also animal or vegetable fats and oils, according to national and international norms. 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.

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.

IHXXXXXXXXXX Part Number / Standard Length m	 I.D. mm	 O.D.* mm	 Working Pressure			 Burst Pressure			 Weight kg/m	 min. Bend Radius mm
			MPa	psi	bar	MPa	psi	bar		
POLIAX UPE CON SM EN 12115										
IH36811529/40	19	31	1,6	232,0	16	6,4	928,0	64	0,71	190
IH36811530/40	25	37	1,6	232,0	16	6,4	928,0	64	0,87	230
IH36811531/40	32	44	1,6	232,0	16	6,4	928,0	64	1,07	260
IH36811532/40	38	51	1,6	232,0	16	6,4	928,0	64	1,35	340
IH36811534/40	50	66	1,6	232,0	16	6,4	928,0	64	2,29	410
IH36811535/40	63,5	79	1,6	232,0	16	6,4	928,0	64	2,51	450
IH36811536/40	75	91	1,6	232,0	16	6,4	928,0	64	3,07	530
IH36811538/20	100	116	1,2	180,0	12	4,8	696,0	48	4,43	680

EN 12115 UPE - I. D. - SD - PN. - - BP. - bar - Q - TRbF 131/T2 P.5.5 - Quarter/Year - MADE IN ITALY Parker ITR



CARBOBLUE N/L 10 - 20

Hose Construction

Tube: Black, smooth, antistatic ($R < 1 \text{ M}\Omega/\text{m}$) and sulphur free EPDM rubber compound nitrosamine free with peroxide curing. Extensive tests on tensile stress, cold bending, heat, and laceration resistance on compound in contact with the additive did not show alteration of its state. In addition, no contamination of the additive was present after 168 hours at the temperature of 70 °C.

Reinforcement: Synthetic textile fabrics
Cover: Black, smooth, antistatic ($R < 1 \text{ M}\Omega/\text{m}$), EPDM rubber compound nitrosamine free, ageing, heat and weather resistant.



Applications

Hose certified specially designed for additive that reduce the amount of nitrogen oxide and its mixtures (NOx). Composed of 32 % urea aqueous solution (AUS 32/AIR1-AdBlue), the CarboBlue hose is used in applications where there is a requirement for extracting NOx (nitrogen oxide and its mixtures that emit polluted substances into the environment during air combustion) and dramatically reducing exhaust gas from diesel engines. These objectives are included in European parameters EURO IV and EURO V. Suitable for applications in the engines, distributors, refuse incinerators, electrical energy systems. The hose passed the cold bending test.

Temperature Range

-40 °C (-40 °F) +100 °C (+212 °F)
with peaks up to +120 °C (+248 °C)

Tolerances

According to UNI EN ISO 1307/97

On inside diameter: $\pm 0,80 \text{ mm}$

Length tolerance: $\pm 1 \%$

IHXXXXXXXXXX Part Number/ Standard Length m	 I.D. mm	 O.D. mm	 Working Pressure			 Burst Pressure			 Weight kg/m	 min. Bend Radius mm
			MPa	psi	bar	MPa	psi	bar		
CARBOBLUE N/L 10										
IH30515030/100	16	23	1,0	150,0	10	3,0	450,0	30	0,27	100
IH30515031/80	19	27	1,0	150,0	10	3,0	450,0	30	0,37	115
IH30515032/50	25	36	1,0	150,0	10	3,0	450,0	30	0,68	150
CARBOBLUE N/L 20										
IH30515042/100	4	10	2,0	300,0	20	6,0	900,0	60	0,08	30
IH30515043/100	6	12	2,0	300,0	20	6,0	900,0	60	0,11	40
IH30515044/100	8	15	2,0	300,0	20	6,0	900,0	60	0,16	50
IH30515045/100	10	17	2,0	300,0	20	6,0	900,0	60	0,19	60
IH30515046/100	13	20	2,0	300,0	20	6,0	900,0	60	0,23	80
IH30515040/80	16	26	2,0	300,0	20	6,0	900,0	60	0,43	100
IH30515041/80	19	30	2,0	300,0	20	6,0	900,0	60	0,56	115
IH30515047/50	25	37	2,0	300,0	20	6,0	900,0	60	0,76	150

