

P-Engineering Pipe Specification Overview

Pipe Series Naming:

- > **A: Cast Iron**
- > **C: Carbon Steel**
- > **D: Duplex Steel**
- > **E*: Cables, Busbars etc. (Not Standard)**
- > **G*: PEX (Not Standard)**
- > **H*: Insulation Classes - Reserved**
- > **J*: PP + PE (Not Standard)**
- > **K: Cupper Alloys**
- > **L*: PVC (Not Standard)**
- > **M*: Aluminium Alloys (Not Standard)**
- > **N: Nickel Alloys**
- > **P: Polymer General including GRP and other compounds**
- > **R: Stainless Steel - 6Mo type**
- > **S: Stainless Steel**
- > **T: Titanium Alloyes**
- > **Z*: Surface Treatment - Reserved**

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P-Engineering Pipe Specification Overview

A Cast Iron

A12 Cast Iron Sewage Pipe; SML Coating

Rating: N/A

Assembly: Clamp Clamp with Gasket with Bolting

PED: N/A Not relevant

Supplier: DUKER

Surface, Inner: SML SML Coating

Sewage, Black	N/A	Sewage Toilet etc.	0	20
Sewage, Gray	N/A	Sewage general	0	20

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P-Engineering Pipe Specification Overview

A Cast Iron

A13 Cast Iron Sewage Pipe; MLK Coating

Rating: N/A

Assembly: Clamp Clamp with Gasket with Bolting

PED: N/A Not relevant

Supplier: DUKER

Surface, Inner: SML SML Coating

Sewage, Black	N/A	Sewage Toilet etc.	9	0	20
Sewage, Fatty	N/A	Sewage from Kitchen		0	50
Sewage, Gray	N/A	Sewage general		0	20

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P-Engineering Pipe Specification Overview

A Cast Iron

A14 Cast Iron Sewage Pipe; TML Coating

Rating: N/A

Assembly: Clamp Clamp with Gasket with Bolting

PED: N/A Not relevant

Supplier: DUKER

Surface, Inner: SML SML Coating

Sewage, Black	N/A	Sewage Toilet etc.	9	0	20
Sewage, Fatty	N/A	Sewage from Kitchen		0	50
Sewage, Gray	N/A	Sewage general		0	20
Sewage, Oily	N/A	Sewage Parking etc.		0	20

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P-Engineering Pipe Specification Overview

C	Carbon Steel		
C00	Black Steel Welded PN2.5		
Rating:	PN02.5		
Assembly:	Welded	Welded acc. WPS	
PED:	PED	Compliance	EN13480
Supplier:	General EN-Series		
Surface, Inner:	Pharma	Ra < 0,8 my	

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P-Engineering Pipe Specification Overview

C **Carbon Steel**

C01 **Black Steel Welded PN06**

Rating: **PN06**

Assembly: Welded Welded acc. WPS

PED: PED Compliance EN13480

Supplier: General EN-Series

Surface, Inner: Black Steel 1 Sandblastet

Oil Diesel I	PN06	Diesel Oil	4	50

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P-Engineering Pipe Specification Overview

C Carbon Steel

C02 Black Steel Welded PN10

Rating: PN10

Assembly: Welded Welded acc. WPS

PED: PED Compliance EN13480

Supplier: General EN-Series

Surface, Inner: Black Steel 1 Sandblastet

Cooling I	PN10	General Cooling 35% Glycol	Surface Painting	8	50
Cooling Onshore LNG	PN10	Glycol for LNG etc.	Surface Painting	6	-180
Heating Central	PN10	General Heating Systems		8	100
LNG	PN10	Liquified Natrural Gas	On shore	6	-180
Oil Diesel II	PN10	Diesel Oil		8	50
Sprinkler	PN10	General Sprinkler Installation		8	25
Steam Condensate II	PN10	Pressurized Condensate from Steam		8	100
Steam Raw	PN10	Industrial Steam System		6	165

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C Carbon Steel

C03 Black Steel Welded PN16

Rating: PN16

Assembly: Welded Welded acc. WPS

PED: PED Compliance EN13480

Supplier: General EN-Series

Surface, Inner: Black Steel 1 Sandblastet

Cooling I	PN10	General Cooling 35% Glycol	Surface Painting	8	50
Cooling II	PN16	General Cooling 35% Glycol	Surface Painting	12	50
Cooling Onshore LNG	PN10	Glycol for LNG etc.	Surface Painting	6	-180
Cooling Onshore LNG	PN16	Glycol for LNG Cooling etc.	Surface Painting	12	-180
Heating Central	PN10	General Heating Systems		8	100
Heating Central	PN16	General Heating Systems		14	100
Heating District	PN16	District Heating		13	120
LNG	PN16	Liquified Natural Gas	On shore	12	-180
Sprinkler	PN10	General Sprinkler Installation		8	25
Sprinkler	PN16	General Sprinkler Installation		14	25
Steam Condensate II	PN10	Pressurized Condensate from Steam		8	100
Steam Condensate III	PN16	Pressurized Condensate from Steam		12	100
Steam Raw	PN10	Industrial Steam System		6	165
Steam Raw	PN16	Industrial Steam System		10	184

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P-Engineering Pipe Specification Overview

C Carbon Steel

C04 Black Steel Welded PN25

Rating: PN25

Assembly: Welded Welded acc. WPS

PED: PED Compliance EN13480

Supplier: General EN-Series

Surface, Inner: Black Steel 1 Sandblastet

Cooling III	PN25	General Cooling 35% Glycol	Surface Painting	20	50
Cooling Onshore LNG	PN25	Glycol for LNG Cooling etc.	Surface Painting	20	-180
Heating Central	PN25	General Heating Systems		22	100
Heating Central	PN40	General Heating Systems		36	100
Heating District	PN16	District Heating		13	120
LNG	PN25	Liquified Natrural Gas	On shore	20	-180
Sprinkler	PN25	General Sprinkler Installation		23	25
Steam Raw	PN25	Industrial Steam System		18	210

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P-Engineering Pipe Specification Overview

C Carbon Steel

C05 Black Steel Welded PN40

Rating: PN40

Assembly: Welded Welded acc. WPS

PED: PED Compliance EN13480

Supplier: General EN-Series

Surface, Inner: Black Steel 1 Sandblastet

Steam Raw	PN40	Industrial Steam System	30	253

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C Carbon Steel

C06 Black Steel Welded PN64

Rating: PN64

Assembly: Welded Welded acc. WPS

PED: PED Compliance EN13480

Supplier: General EN-Series

Surface, Inner: Black Steel 1 Sandblastet

Steam Raw	PN64	Industrial Steam System	50	265

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C	Carbon Steel		
C07	Black Steel Welded PN100		
Rating:	PN100		
Assembly:	Welded	Welded acc. WPS	
PED:	PED	Compliance	EN13480
Supplier:	General EN-Series		
Surface, Inner:	Black Steel 1	Sandblastet	

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C Carbon Steel

C12 Black Steel Welded PN10 - N-Gas Application

Rating: PN10

Assembly: Welded Welded acc. WPS

PED: PED Compliance EN13480

Supplier: General EN-Series - Bend+Bauart5

Surface, Inner: Black Steel 1 Sandblastet

N-Gas II	PN10	N-Gas Distribution	6	50
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P-Engineering Pipe Specification Overview

C Carbon Steel

C13 Black Steel Welded PN16 - N-Gas Application

Rating: PN16

Assembly: Welded Welded acc. WPS

PED: PED Compliance EN13480

Supplier: General EN-Series - Bend+Bauart5

Surface, Inner: Black Steel 1 Sandblastet

N-Gas III	PN16	N-Gas Distribution	12	50

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C Carbon Steel

C14 Black Steel Welded PN25 - N-Gas Application

Rating: PN25

Assembly: Welded Welded acc. WPS

PED: PED Compliance EN13480

Supplier: General EN-Series - Bend+Bauart5

Surface, Inner: Black Steel 1 Sandblastet

N-Gas IV	PN25	N-Gas Distribution	20	50
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P-Engineering Pipe Specification Overview

C	Carbon Steel		
C15	Black Steel Welded PN40 - N-Gas Application		
Rating:	PN40		
Assembly:	Welded	Welded acc. WPS	
PED:	PED	Compliance	EN13480
Supplier:	General EN-Series - Bend+Bauart5		
Surface, Inner:	Black Steel 1	Sandblastet	

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P-Engineering Pipe Specification Overview

C Carbon Steel

C16 Black Steel Welded PN64 - N-Gas Application

Rating: PN64

Assembly: Welded Welded acc. WPS

PED: PED Compliance EN13480

Supplier: General EN-Series - Bend+Bauart5

Surface, Inner: Black Steel 1 Sandblastet

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P-Engineering Pipe Specification Overview

C Carbon Steel

C17 Black Steel Welded PN100 - N-Gas Application

Rating: PN100

Assembly: Welded Welded acc. WPS

PED: PED Compliance EN13480

Supplier: General EN-Series - Bend+Bauart5

Surface, Inner: Black Steel 1 Sandblastet

N-Gas VII	PN100 N-Gas Distribution Main	80	50
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P-Engineering Pipe Specification Overview

C Carbon Steel

C22 Black Steel Piping

Rating: PN10

Assembly: Clamp Clamp with Gasket with Bolting

PED: Declaration Supplier Component Declaration

Supplier: Vitaulic

Surface, Inner: Black Steel 2 No action

Cooling I	PN10	General Cooling 35% Glycol	Surface Painting	8	50
Heating Central	PN10	General Heating Systems		8	100
Sprinkler	PN10	General Sprinkler Installation		8	25

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P-Engineering Pipe Specification Overview

C Carbon Steel

C23 Black Steel Piping

Rating: PN16

Assembly: Clamp Clamp with Gasket with Bolting

PED: Declaration Supplier Component Declaration

Supplier: Vitaulic

Surface, Inner: Black Steel 2 No action

Cooling II	PN16	General Cooling 35% Glycol	Surface Painting	12	50
Heating Central	PN16	General Heating Systems		14	100
Sprinkler	PN16	General Sprinkler Installation		14	25

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P-Engineering Pipe Specification Overview

C Carbon Steel

C24 Black Steel Piping

Rating: PN25

Assembly: Clamp Clamp with Gasket with Bolting

PED: Declaration Supplier Component Declaration

Supplier: Vitaulic

Surface, Inner: Black Steel 2 No action

Cooling III	PN25	General Cooling 35% Glycol	Surface Painting	20	50
Heating Central	PN25	General Heating Systems		22	100
Sprinkler	PN25	General Sprinkler Installation		23	25

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P-Engineering Pipe Specification Overview

C Carbon Steel

C33 Fitted Pipping Black Steel

Rating: PN16

Assembly: Fitted With "Garn & Salve"

PED: Declaration Supplier Component Declaration

Supplier: +GF+

Surface, Inner: Black Steel 2 No action

Cooling I	PN10	General Cooling 35% Glycol	Surface Painting	8	50
Cooling II	PN16	General Cooling 35% Glycol	Surface Painting	12	50
Heating Central	PN10	General Heating Systems		8	100
Heating Central	PN16	General Heating Systems		14	100
Heating District	PN16	District Heating		13	120
Heating Floor	PN06	General Floor Heating system		5	50
N-Gas I	PN06	N-Gas Distribution		1	50
N-Gas II	PN10	N-Gas Distribution		6	50
N-Gas III	PN16	N-Gas Distribution		12	50
Oil Diesel I	PN06	Diesel Oil		4	50
Oil Diesel I	PN06	Diesel Oil		4	50
Oil Diesel I	PN06	Diesel Oil		4	50
Oil Diesel II	PN10	Diesel Oil		8	50
Sprinkler	PN10	General Sprinkler Installation		8	25
Sprinkler	PN16	General Sprinkler Installation		14	25
Steam Condensate II	PN10	Pressurized Condensate from Steam		8	100

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Steam Condensate III	PN16	Pressurized Condensate from Steam	12	100
Steam Raw	PN10	Industrial Steam System	6	165
Steam Raw	PN16	Industrial Steam System	10	184

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P-Engineering Pipe Specification Overview

C Carbon Steel

C34 Fitted Pipping Black Steel

Rating: PN25

Assembly: Fitted With "Garn & Salve"

PED: Declaration Supplier Component Declaration

Supplier: Generic

Surface, Inner: Black Steel 2 No action

N-Gas III	PN16	N-Gas Distribution	12	50
N-Gas IV	PN25	N-Gas Distribution	20	50
Steam Raw	PN25	Industrial Steam System	18	210

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P-Engineering Pipe Specification Overview

C Carbon Steel

C39 Pressition Tubes E235 / W1.035

Rating: PN300

Assembly: Compression II DIN 2353 pipe fittings (connection with a cutting ring)

PED: Supplier PED by Supplier Specification

Supplier: General EN-Series EN 10305-4

Surface, Inner: Zink Zinc-plated coating

Oil Hydraulic	PN300 Hydraulic Oil for Motion System	300	100

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P-Engineering Pipe Specification Overview

C Carbon Steel

C43 Fitted Pipping Black Steel

Rating: PN16

Assembly: Fitted With "Garn & Salve"

PED: Declaration Supplier Component Declaration

Supplier: +GF+

Surface, Inner: Galvanized Hot Dip Galvanized

Cooling I	PN10	General Cooling 35% Glycol	Surface Painting	8	50
Cooling II	PN16	General Cooling 35% Glycol	Surface Painting	12	50
Heating Central	PN10	General Heating Systems		8	100
Heating Central	PN16	General Heating Systems		14	100
Heating Floor	PN06	General Floor Heating system		5	50
Oil Diesel I	PN06	Diesel Oil		4	50
Oil Diesel II	PN10	Diesel Oil		8	50
Sprinkler	PN10	General Sprinkler Installation		8	25
Sprinkler	PN16	General Sprinkler Installation		14	25

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P-Engineering Pipe Specification Overview

C	Carbon Steel	
C44	Fitted Pipping Black Steel	
Rating:	PN25	
Assembly:	Fitted	With "Garn & Salve"
PED:	Declaration	Supplier Component Declaration
Supplier:	Generic	
Surface, Inner:	Galvanized	Hot Dip Galvanized

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P-Engineering Pipe Specification Overview

C Carbon Steel

C52 Black Steel Piping

Rating: PN10

Assembly: Welded Welded acc. WPS

PED: PED Compliance EN13480

Supplier: General EN-Series with rubber Lining

Surface, Inner: Lined Rubber Lining

Slurry I	PN10	Water Slurry with partickles	8	50
Water w. Bio residue	PN10	Technical Water with Bio Residue / Bactecia	8	50

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P-Engineering Pipe Specification Overview

C Carbon Steel

C53 Black Steel Piping

Rating: PN16

Assembly: Welded Welded acc. WPS

PED: PED Compliance EN13480

Supplier: General EN-Series with rubber Lining

Surface, Inner: Lined Rubber Lining

Slurry I	PN10	Water Slurry with partickles	8	50
Slurry II	PN16	Water Slurry with Partickles	8	50
Water w. Bio residue	PN10	Technical Water with Bio Residue / Bactecia	8	50

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P-Engineering Pipe Specification Overview

C	Carbon Steel		
C54	Black Steel Piping		
Rating:	PN25		
Assembly:	Welded	Welded acc. WPS	
PED:	PED	Compliance	EN13480
Supplier:	General EN-Series with rubber Lining		
Surface, Inner:	Lined	Rubber Lining	

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P-Engineering Pipe Specification Overview

C Carbon Steel

C62 Black Steel Piping Marine

Rating: **PN10**

Assembly: Welded Welded acc. WPS

PED: PED Compliance EN13480

Supplier: General EN-Series with Groove/Tungue

Surface, Inner: Black Steel 1 Sandblastet

Cooling Marine LNG	PN10	Glycol for LNG etc.	Surface Treatment	6	-180
LNG	PN10	Liquified Natrural Gas	Surface Treatment - Marine	6	-180

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P-Engineering Pipe Specification Overview

C Carbon Steel

C63 Black Steel Piping Marine

Rating: PN16

Assembly: Welded Welded acc. WPS

PED: PED Compliance EN13480

Supplier: General EN-Series with Groove/Tungue

Surface, Inner: Black Steel 1 Sandblastet

Cooling Marine LNG	PN16	Glycol for LNG Cooling etc.	Surface Treatment	12	-180
LNG	PN16	Liquified Natrural Gas	Surface Treatment - Marine	12	-180

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P-Engineering Pipe Specification Overview

C Carbon Steel

C64 Black Steel Piping Marine

Rating: PN25

Assembly: Welded Welded acc. WPS

PED: PED Compliance EN13480

Supplier: General EN-Series with Groove/Tungue

Surface, Inner: Black Steel 1 Sandblastet

Cooling Marine LNG	PN25	Glycol for LNG Cooling etc.	Surface Treatment	20	-180
LNG	PN25	Liquified Natrural Gas	Surface Treatment - Marine	20	-180

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P-Engineering Pipe Specification Overview

C Carbon Steel

C73 Black Steel Press Piping

Rating: PN16

Assembly: Pressing Press with Pressing Tool / Matrix

PED: Supplier PED by Supplier Specification

Supplier: Viega

Surface, Inner: FZ FZ Plated

Heating Central	PN10	General Heating Systems	8	100
Heating Central	PN16	General Heating Systems	14	100
Heating Floor	PN06	General Floor Heating system	5	50

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P-Engineering Pipe Specification Overview

C Carbon Steel

C83 Black Steel Press Piping

Rating: PN16

Assembly: Pressing Press with Pressing Tool / Matrix

PED: Supplier PED by Supplier Specification

Supplier: Blucher Mapress

Surface, Inner: FZ FZ Plated

Heating Central	PN10	General Heating Systems	8	100
Heating Central	PN16	General Heating Systems	14	100
Heating Floor	PN06	General Floor Heating system	5	50

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P-Engineering Pipe Specification Overview

C Carbon Steel

C93 Black Steel Press Piping

Rating: PN16

Assembly: Pressing Press with Pressing Tool / Matrix

PED: Supplier PED by Supplier Specification

Supplier: Broen

Surface, Inner: FZ FZ Plated

Heating Central	PN10	General Heating Systems	8	100
Heating Central	PN16	General Heating Systems	14	100
Heating Floor	PN06	General Floor Heating system	5	50

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P-Engineering Pipe Specification Overview

D	Duplex Steel		
D91	Duplex Steel for Super Critical Process		
Rating:	300		
Assembly:	Welded	Welded acc. WPS	
PED:	PED	Compliance	EN13480
Supplier:	Special Series		
Surface, Inner:	N/A	N/A	

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P-Engineering Pipe Specification Overview

G* **PEX**

G02 **PEX Piping max 70C**

Rating: **PN10**

Assembly: Compression I Compression connection tighten with tool

PED: Supplier PED by Supplier Specification

Supplier: Generic SDR9

Surface, Inner: N/A N/A

Water Osmosis	PN10	Osmosis Water	8	40
Water Tap Cold	PN10	General Tap Water	8	40
Water Technical	PN10	Technical Water General	8	50

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P-Engineering Pipe Specification Overview

G* **PEX**

G12 **PEX Piping max 70C with Oxygen Barrier**

Rating: **PN10**

Assembly: Compression I Compression connection tighten with tool

PED: Supplier PED by Supplier Specification

Supplier: Generic SDR9

Surface, Inner: N/A N/A

Cooling I	PN10	General Cooling 35% Glycol	8	50
Heating Central	PN10	General Heating Systems	8	100
Heating Floor	PN06	General Floor Heating system	5	50

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P-Engineering Pipe Specification Overview

G* **PEX**

G21 **PEX Piping max 95C**

Rating: **PN06**

Assembly: Compression I Compression connection tighten with tool

PED: Supplier PED by Supplier Specification

Supplier: Generic SDR9

Surface, Inner: N/A N/A

Water Osmosis	PN10	Osmosis Water	8	40
Water Tap Cold	PN10	General Tap Water	8	40
Water Tap Hot	PN10	General Hot Tap Water	7	80
Water Technical	PN10	Technical Water General	8	50

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P-Engineering Pipe Specification Overview

G*	PEX
G31	PEX Piping max 95C with Oxygen Barrier
Rating:	PN06
Assembly:	Compression I Compression connection tighten with tool
PED:	Supplier PED by Supplier Specification
Supplier:	Generic SDR9
Surface, Inner:	N/A N/A

Heating Floor	PN06	General Floor Heating system	5	50
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P-Engineering Pipe Specification Overview

J*	PP and PE	
J03	PP-RCT SDR 11	
Rating:		
Assembly:	Compression I	Compression connection tighten with tool
PED:	Supplier	PED by Supplier Specification
Supplier:	Uponor	
Surface, Inner:	N/A	N/A

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P-Engineering Pipe Specification Overview

J* PP and PE

J22 PE100 Pipe System

Rating: PN10

Assembly: Butt Fusion Mirror Welding / Butt Fusion

PED: Supplier PED by Supplier Specification

Supplier: General

Surface, Inner: N/A N/A

Acid HCl 30%	PN10	Hydrochloric Acid 30%	6	50
Acid Industry, Gen,	PN10	Acid General Industrial Grade	8	50
Acid Pharma, General	PN10	Acid General Pharma Grade	8	50
Lye Industry, Gen,	PN10	Lye General Industrial Grade	8	50
Lye Pharma, General	PN10	Acid General Pharma Grade	8	50

P-Engineering:

Gyden 6, DK5970 Ærøskøbing; www.p-engineering.dk; cp@p-engineering.dk; +45 25 26 88 05

P-Engineering Pipe Specification Overview

J* **PP and PE**

J52 **PEM Rør**

Rating: **PN10**

Assembly: Compression I Compression connection tighten with tool

PED: Supplier PED by Supplier Specification

Supplier: General

Surface, Inner: N/A N/A

Water Tap Cold	PN10	General Tap Water	8	40

P-Engineering:

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P-Engineering Pipe Specification Overview

K Cupper Alloys

K43 Cupper Piping - Compression

Rating: **PN16**

Assembly: Compression II DIN 2353 pipe fittings (connection with a cutting ring)

PED: Supplier PED by Supplier Specification

Supplier: Generic

Surface, Inner: N/A N/A

CO2	PN10	Industrial Cooling System	6	-40
N-Gas I	PN06	N-Gas Distribution	1	50

P-Engineering:

Gyden 6, DK5970 Ærøskøbing; www.p-engineering.dk; cp@p-engineering.dk; +45 25 26 88 05

P-Engineering Pipe Specification Overview

K Cupper Alloys

K53 Cupper Piping - Solded

Rating: **PN16**

Assembly: Soldering With Flush

PED: Supplier PED by Supplier Specification

Supplier: Generic

Surface, Inner: N/A N/A

CO2	PN10	Industrial Cooling System	6	-40

P-Engineering:

Gyden 6, DK5970 Ærøskøbing; www.p-engineering.dk; cp@p-engineering.dk; +45 25 26 88 05

P-Engineering Pipe Specification Overview

K Cupper Alloys

K93 Cupper Piping - Pressed

Rating: PN16

Assembly: Pressing Press with Pressing Tool / Matrix

PED: Supplier PED by Supplier Specification

Supplier: Broen

Surface, Inner: N/A N/A

N-Gas I	PN06	N-Gas Distribution	1	50

P-Engineering:

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P-Engineering Pipe Specification Overview

L*	PVC	
L41	Wawin Sewage Piping	
Rating:	N/A	
Assembly:	Sleeve M/F	Male - Female Sleeve Connection
PED:	N/A	Not relevant
Supplier:	Wawin	
Surface, Inner:	N/A	N/A

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P-Engineering:

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P-Engineering Pipe Specification Overview

M* **Aluminium Alloys incl. Aluminium with Plas**

M82 **MLS Metallic Pipe PLUS max 70C**

Rating: **PN10**

Assembly: Compression I Compression connection tighten with tool

PED: Supplier PED by Supplier Specification

Supplier: Uponor

Surface, Inner: N/A N/A

Heating Central	PN10	General Heating Systems	Max temp.!	8	100
Water Osmosis	PN10	Osmosis Water		8	40
Water Tap Cold	PN10	General Tap Water		8	40
Water Tap Hot	PN10	General Hot Tap Water	Max Temp.!	7	80
Water Technical	PN10	Technical Water General		8	50

P-Engineering:

Gyden 6, DK5970 Ærøskøbing; www.p-engineering.dk; cp@p-engineering.dk; +45 25 26 88 05

P-Engineering Pipe Specification Overview

M* **Aluminium Alloys incl. Aluminium with Plas**

M92 **MLS Uni Pipe PLUS max 70C - Hvid**

Rating: **PN10**

Assembly: Compression I Compression connection tighten with tool

PED: Supplier PED by Supplier Specification

Supplier: Uponor

Surface, Inner: N/A N/A

Heating Central	PN10	General Heating Systems	Max temp.!	8	100
Water Osmosis	PN10	Osmosis Water		8	40
Water Tap Cold	PN10	General Tap Water		8	40
Water Tap Hot	PN10	General Hot Tap Water	Max Temp.!	7	80
Water Technical	PN10	Technical Water General		8	50

P-Engineering:

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P-Engineering Pipe Specification Overview

P Polymer

P03 GRP Piping

Rating: PN16

Assembly:	Glue	Male/Female Socket with Glue
PED:	Declaration	Supplier Component Declaration
Supplier:	General	
Surface, Inner:	N/A	N/A

Slurry I	PN10	Water Slurry with partickles	8	50
Water Sea	PN10	Seawater Salinity 3.8%	8	50
Water Technical	PN10	Technical Water General	8	50
Water w. Bio residue	PN10	Technical Water with Bio Residue / Bactecia	8	50

P-Engineering:

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P-Engineering Pipe Specification Overview

P Polymer

P41 Geberit Silent PP Sewage Piping

Rating: N/A

Assembly: Sleeve M/F Male - Female Sleeve Connection

PED: N/A Not relevant

Supplier: Geberit

Surface, Inner: N/A N/A

Sewage, Black	N/A	Sewage Toilet etc.	0	20
Sewage, Gray	N/A	Sewage general	0	20
Sewage, Oily	N/A	Sewage Parking etc.	0	20
Sewage; Rain Water	N/A	Rain Water, Gravity	0	0

P-Engineering:

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P-Engineering Pipe Specification Overview

P Polymer

P93 Hose (TPU) and Fittings

Rating: PN16

Assembly: Compression I Compression connection tighten with tool

PED: Supplier PED by Supplier Specification

Supplier: General

Surface, Inner: N/A N/A

Air Compressed I	PN10	Compressed Air Industrial Grade	8	30
Air Compressed II	PN16	Compressed Air Industrial Grade	12	30

P-Engineering:

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P-Engineering Pipe Specification Overview

R Stainless Steel - 6 Mo type

R03 Stainless Steel SMO 1.4547

Rating: PN16

Assembly: Welded Welded acc. WPS

PED: PED Compliance EN13480

Supplier: General EN-Series

Surface, Inner: N/A N/A

Lye Industry, Gen,	PN10	Lye General Industrial Grade	8	50
Water Osmosis	PN10	Osmosis Water	8	40
Water Sea	PN10	Seawater Salinity 3.8%	8	50
Water Tap Cold	PN10	General Tap Water	8	40
Water Tap Cold	PN16	General Tap Water	14	40
Water Tap Hot	PN10	General Hot Tap Water	7	80
Water Tap Hot	PN16	General Hot Tap Water	12	80
Water Technical	PN10	Technical Water General	8	50
Water w. Bio residue	PN10	Technical Water with Bio Residue / Bactecia	8	50

P-Engineering:

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P-Engineering Pipe Specification Overview

R Stainless Steel - 6 Mo type

R09 Instrument Piping

Rating: 100

Assembly: Compression I Compression connection tighten with tool

PED: PED Compliance EN13480

Supplier: Pending

Surface, Inner: N/A N/A

Flue Gas I	PN00	Flue Gas	0	300
Flue Gas II	PN00	Flue Gas	0	600

P-Engineering:

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P-Engineering Pipe Specification Overview

S Stainless Steel

S02 Stainless Steel 1.4307 Welded PN10, Loose flange

Rating: PN10

Assembly: Welded w. Iner Welded acc. WPS

PED: PED Compliance EN13480

Supplier: General EN-Series

Surface, Inner: N/A N/A

Air Compressed I	PN10	Compressed Air Industrial Grade	8	30
Cooling I	PN10	General Cooling 35% Glycol	8	50
Cooling Onshore LNG	PN10	Glycol for LNG etc.	6	-180
Oil Diesel I	PN06	Diesel Oil	4	50
Oil Diesel II	PN10	Diesel Oil	8	50
Sewage, Black	N/A	Sewage Toilet etc.	0	20
Sewage, Fatty	N/A	Sewage from Kitchen	0	50
Sewage, Gray	N/A	Sewage general	0	20
Sewage, Oily	N/A	Sewage Parking etc.	0	20
Sewage; Rain Water	N/A	Rain Water, Siphon system	0	0
Sewage; Rain Water	N/A	Rain Water, Gravity	0	0
Sewage; Rain Water	N/A	Rain Water, Siphon system	0	0

P-Engineering:

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P-Engineering Pipe Specification Overview

Sewage; Rain Water	N/A	Rain Water, Gravity	0	0
Steam Condensate I	N/A	Pressureless Condensate from Steam	1	100
Steam Condensate II	PN10	Pressurized Condensate from Steam	8	100

P-Engineering Pipe Specification Overview

S Stainless Steel

S03 Stainless Steel 1.4307 Welded PN16

Rating: PN16

Assembly: Welded w. Iner Welded acc. WPS

PED: PED Compliance EN13480

Supplier: General EN-Series

Surface, Inner: N/A N/A

Air Compressed I	PN10	Compressed Air Industrial Grade	8	30
Air Compressed II	PN16	Compressed Air Industrial Grade	12	30
Cooling I	PN10	General Cooling 35% Glycol	8	50
Cooling II	PN16	General Cooling 35% Glycol	12	50
Cooling Onshore LNG	PN10	Glycol for LNG etc.	6	-180
Cooling Onshore LNG	PN16	Glycol for LNG Cooling etc.	12	-180
Sewage, Black	N/A	Sewage Toilet etc.	0	20
Sewage, Fatty	N/A	Sewage from Kitchen	0	50
Sewage, Gray	N/A	Sewage general	0	20
Sewage, Oily	N/A	Sewage Parking etc.	0	20
Sewage; Rain Water	N/A	Rain Water, Siphon system	0	0
Sewage; Rain Water	N/A	Rain Water, Gravity	0	0

P-Engineering:

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P-Engineering Pipe Specification Overview

Steam Condensate I	N/A	Pressureless Condensate from Steam	1	100
Steam Condensate II	PN10	Pressurized Condensate from Steam	8	100
Steam Condensate III	PN16	Pressurized Condensate from Steam	12	100

P-Engineering:

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P-Engineering Pipe Specification Overview

S Stainless Steel

S04 Stainless Steel 1.4307 Welded PN25

Rating: PN25

Assembly: Welded w. Iner Welded acc. WPS

PED: PED Compliance EN13480

Supplier: General EN-Series

Surface, Inner: N/A N/A

Cooling III	PN25	General Cooling 35% Glycol	20	50
Cooling Onshore LNG	PN16	Glycol for LNG Cooling etc.	12	-180
Cooling Onshore LNG	PN25	Glycol for LNG Cooling etc.	20	-180

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P-Engineering:

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P-Engineering Pipe Specification Overview

S Stainless Steel

S09 Instrument Piping

Rating: **PN100**

Assembly: Compression I Compression connection tighten with tool

PED: PED Compliance EN13480

Supplier: Pending

Surface, Inner: N/A N/A

Flue Gas I	PN00	Flue Gas	0	300
Flue Gas II	PN00	Flue Gas	0	600

P-Engineering:

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P-Engineering Pipe Specification Overview

S Stainless Steel

S12 Stainless Steel 1.4404 Welded PN10, Loose flange

Rating: PN10

Assembly: Welded w. Iner Welded acc. WPS

PED: PED Compliance EN13480

Supplier: General EN-Series

Surface, Inner: N/A N/A

Air Compressed I	PN10	Compressed Air Industrial Grade	8	30
Cooling I	PN10	General Cooling 35% Glycol	8	50
Cooling Onshore LNG	PN10	Glycol for LNG etc.	6	-180
Ethanol I	PN10	Ethanol Solvent %	6	50
Lye Industry, Gen,	PN10	Lye General Industrial Grade	8	50
Sewage, Black	N/A	Sewage Toilet etc.	0	20
Sewage, Fatty	N/A	Sewage from Kitchen	0	50
Sewage, Gray	N/A	Sewage general	0	20
Sewage, Oily	N/A	Sewage Parking etc.	0	20
Sewage; Rain Water	N/A	Rain Water, Siphon system	0	0
Sewage; Rain Water	N/A	Rain Water, Gravity	0	0
Steam Condensate I	N/A	Pressureless Condensate from Steam	1	100

P-Engineering:

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P-Engineering Pipe Specification Overview

Steam Condensate II	PN10	Pressurized Condensate from Steam	8	100
Water Tap Cold	PN10	General Tap Water	8	40
Water Tap Hot	PN10	General Hot Tap Water	7	80

P-Engineering:

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P-Engineering Pipe Specification Overview

S Stainless Steel

S13 Stainless Steel 1.4404 Welded PN16

Rating: PN16

Assembly: Welded w. Iner Welded acc. WPS

PED: PED Compliance EN13480

Supplier: General EN-Series

Surface, Inner: N/A N/A

Air Compressed I	PN10	Compressed Air Industrial Grade	8	30
Air Compressed II	PN16	Compressed Air Industrial Grade	12	30
Cooling I	PN10	General Cooling 35% Glycol	8	50
Cooling II	PN16	General Cooling 35% Glycol	12	50
Cooling Onshore LNG	PN10	Glycol for LNG etc.	6	-180
Cooling Onshore LNG	PN16	Glycol for LNG Cooling etc.	12	-180
Ethanol I	PN10	Ethanol Solvent %	6	50
Lye Industry, Gen,	PN10	Lye General Industrial Grade	8	50
Sewage, Black	N/A	Sewage Toilet etc.	0	20
Sewage, Fatty	N/A	Sewage from Kitchen	0	50
Sewage, Gray	N/A	Sewage general	0	20
Sewage, Oily	N/A	Sewage Parking etc.	0	20
Sewage; Rain Water	N/A	Rain Water, Gravity	0	0

P-Engineering:

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P-Engineering Pipe Specification Overview

Sewage; Rain Water	N/A	Rain Water, Siphon system	0	0
Steam Condensate I	N/A	Pressureless Condensate from Steam	1	100
Steam Condensate II	PN10	Pressurized Condensate from Steam	8	100
Steam Condensate III	PN16	Pressurized Condensate from Steam	12	100
Water Tap Cold	PN10	General Tap Water	8	40
Water Tap Cold	PN16	General Tap Water	14	40
Water Tap Hot	PN10	General Hot Tap Water	7	80
Water Tap Hot	PN16	General Hot Tap Water	12	80

P-Engineering:

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P-Engineering Pipe Specification Overview

S Stainless Steel

S14 Stainless Steel 1.4404 Welded PN25

Rating: PN25

Assembly: Welded w. Iner Welded acc. WPS

PED: PED Compliance EN13480

Supplier: General EN-Series

Surface, Inner: N/A N/A

Cooling III	PN25	General Cooling 35% Glycol		20	50
Cooling Marine LNG	PN25	Glycol for LNG Cooling etc.	On-shore	20	-180

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P-Engineering:

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P-Engineering Pipe Specification Overview

S Stainless Steel

S23 Pharma Piping - EN 10357 Series 1.4404 (Diary Pipe)

Rating: PN16

Assembly: Welded w. Iner Welded acc. WPS

PED: PED Compliance EN13480

Supplier: Alfa Laval

Surface, Inner: Pharma Ra < 0,8 my

Air Compressed III	PN10	Compressed Air Pharma Grade	0	0
Air Compressed IV	PN16	Compressed Air Pharma Grade	8	30
CIP	PN10	Pharma Cleaning Installations	0	0
Ethanol I	PN10	Ethanol Solvent %	6	50
Lye Pharma, General	PN10	Acid General Pharma Grade	8	50
Methanol I	PN10	Methanol Solvent %	6	30
Steam Clean	PN10	Pharma Steam System	6	165
Steam Clean	PN16	Pharma Steam System	10	184

P-Engineering:

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P-Engineering Pipe Specification Overview

S Stainless Steel

S26 Pharma Piping - EN 10217 Series 1.4404

Rating: **PN16**

Assembly: Welded w. Iner Welded acc. WPS

PED: PED Compliance EN13480

Supplier: Alfa Laval

Surface, Inner: Pharma Ra < 0,8 my

Air Compressed III	PN10	Compressed Air Pharma Grade	0	0
Air Compressed IV	PN16	Compressed Air Pharma Grade	8	30
CIP	PN10	Pharma Cleaning Installations	0	0
Ethanol I	PN10	Ethanol Solvent %	6	50
Lye Pharma, General	PN10	Acid General Pharma Grade	8	50
Methanol I	PN10	Methanol Solvent %	6	30
Steam Clean	PN10	Pharma Steam System	6	165
Steam Clean	PN16	Pharma Steam System	10	184

P-Engineering:

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P-Engineering Pipe Specification Overview

S Stainless Steel

S33 Fitted Piping Stainless Steel 1.4307

Rating: **PN16**

Assembly: Fitted With "Garn & Salve"

PED: Declaration Supplier Component Declaration

Supplier: Generic

Surface, Inner: N/A N/A

Air Compressed I	PN10	Compressed Air Industrial Grade	8	30
Air Compressed II	PN16	Compressed Air Industrial Grade	12	30
Cooling I	PN10	General Cooling 35% Glycol	8	50
Cooling II	PN16	General Cooling 35% Glycol	12	50
Cooling Marine LNG	PN10	Glycol for LNG etc.	6	-180
Cooling Marine LNG	PN16	Glycol for LNG Cooling etc.	12	-180
Cooling Onshore LNG	PN10	Glycol for LNG etc.	6	-180
Cooling Onshore LNG	PN16	Glycol for LNG Cooling etc.	12	-180

P-Engineering:

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P-Engineering Pipe Specification Overview

S Stainless Steel

S34 Fitted Piping Stainless Steel 1.4307

Rating: PN25

Assembly: Fitted With "Garn & Salve"

PED: Declaration Supplier Component Declaration

Supplier: Generic

Surface, Inner: N/A N/A

Cooling I	PN10	General Cooling 35% Glycol	8	50
Cooling II	PN16	General Cooling 35% Glycol	12	50
Cooling III	PN25	General Cooling 35% Glycol	20	50
Cooling Marine LNG	PN25	Glycol for LNG Cooling etc.	20	-180

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P-Engineering:

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P-Engineering Pipe Specification Overview

S Stainless Steel

S41 Sewage Piping 1.4307

Rating: N/A

Assembly: Sleeve M/F Male - Female Sleeve Connection

PED: PED Compliance EN13480

Supplier: Blucher

Surface, Inner: N/A N/A

Sewage, Black	N/A	Sewage Toilet etc.	0	20
Sewage, Fatty	N/A	Sewage from Kitchen	0	50
Sewage, Gray	N/A	Sewage general	0	20
Sewage, Gray	N/A	Sewage general	0	20
Sewage, Oily	N/A	Sewage Parking etc.	0	20
Sewage; Rain Water	N/A	Rain Water, Siphon system	0	0
Sewage; Rain Water	N/A	Rain Water, Siphon system	0	0

P-Engineering:

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P-Engineering Pipe Specification Overview

S Stainless Steel

S42 Sewage Piping 1.4404

Rating: N/A

Assembly: Sleeve M/F Male - Female Sleeve Connection

PED: PED Compliance EN13480

Supplier: Blucher

Surface, Inner: N/A N/A

Sewage, Black	N/A	Sewage Toilet etc.	0	20
Sewage, Fatty	N/A	Sewage from Kitchen	0	50
Sewage, Gray	N/A	Sewage general	0	20
Sewage, Gray	N/A	Sewage general	0	20
Sewage, Oily	N/A	Sewage Parking etc.	0	20
Sewage; Rain Water	N/A	Rain Water, Gravity	0	0
Sewage; Rain Water	N/A	Rain Water, Gravity	0	0

P-Engineering:

Gyden 6, DK5970 Ærøskøbing; www.p-engineering.dk; cp@p-engineering.dk; +45 25 26 88 05

P-Engineering Pipe Specification Overview

S Stainless Steel

S43 Fitted Piping Stainless Steel 1.4404

Rating: PN16

Assembly: Fitted With "Garn & Salve"

PED: Declaration Supplier Component Declaration

Supplier: Generic

Surface, Inner: N/A N/A

Air Compressed I	PN10	Compressed Air Industrial Grade	8	30
Air Compressed II	PN16	Compressed Air Industrial Grade	12	30
Cooling I	PN10	General Cooling 35% Glycol	8	50
Cooling II	PN16	General Cooling 35% Glycol	12	50
Cooling III	PN25	General Cooling 35% Glycol	20	50
Cooling Marine LNG	PN10	Glycol for LNG etc.	6	-180
Cooling Marine LNG	PN16	Glycol for LNG Cooling etc.	12	-180
Cooling Onshore LNG	PN10	Glycol for LNG etc.	6	-180
Cooling Onshore LNG	PN16	Glycol for LNG Cooling etc.	12	-180
Steam Condensate I	N/A	Pressureless Condensate from Steam	1	100
Steam Condensate II	PN10	Pressurized Condensate from Steam	8	100

P-Engineering:

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P-Engineering Pipe Specification Overview

Steam Condensate III	PN16	Pressurized Condensate from Steam	12	100
Water Tap Cold	PN10	General Tap Water	8	40
Water Tap Cold	PN16	General Tap Water	14	40
Water Tap Hot	PN10	General Hot Tap Water	7	80
Water Tap Hot	PN16	General Hot Tap Water	12	80

P-Engineering:

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P-Engineering Pipe Specification Overview

S Stainless Steel

S44 Fitted Piping Stainless Steel 1.4404

Rating: PN25

Assembly: Fitted With "Garn & Salve"

PED: Declaration Supplier Component Declaration

Supplier: Generic

Surface, Inner: N/A N/A

Air Compressed II	PN16	Compressed Air Industrial Grade	12	30
Cooling Marine LNG	PN25	Glycol for LNG Cooling etc.	20	-180
Cooling Onshore LNG	PN25	Glycol for LNG Cooling etc.	20	-180
Steam Condensate III	PN16	Pressurized Condensate from Steam	12	100
Water Tap Cold	PN25	General Tap Water	23	40
Water Tap Hot	PN25	General Hot Tap Water	20	80

P-Engineering:

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P-Engineering Pipe Specification Overview

S Stainless Steel

S73 Stainless Steel; 1.4404

Rating: PN16

Assembly: Pressing Press with Pressing Tool / Matrix

PED: Supplier PED by Supplier Specification

Supplier: Viega

Surface, Inner: N/A N/A

Cooling I	PN10	General Cooling 35% Glycol	8	50
Cooling II	PN16	General Cooling 35% Glycol	12	50
Water Osmosis	PN10	Osmosis Water	8	40
Water Tap Cold	PN10	General Tap Water	8	40
Water Tap Cold	PN16	General Tap Water	14	40
Water Tap Hot	PN10	General Hot Tap Water	7	80
Water Tap Hot	PN16	General Hot Tap Water	12	80
Water Technical	PN10	Technical Water General	8	50

P-Engineering:

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P-Engineering Pipe Specification Overview

S Stainless Steel

S83 Stainless Steel; 1.4404

Rating: PN16

Assembly: Pressing Press with Pressing Tool / Matrix

PED: Supplier PED by Supplier Specification

Supplier: Blucher Mapress

Surface, Inner: N/A N/A

Cooling I	PN10	General Cooling 35% Glycol	8	50
Cooling II	PN16	General Cooling 35% Glycol	12	50
Water Osmosis	PN10	Osmosis Water	8	40
Water Tap Cold	PN10	General Tap Water	8	40
Water Tap Cold	PN16	General Tap Water	14	40
Water Tap Hot	PN10	General Hot Tap Water	7	80
Water Tap Hot	PN16	General Hot Tap Water	12	80
Water Technical	PN10	Technical Water General	8	50

P-Engineering:

Gyden 6, DK5970 Ærøskøbing; www.p-engineering.dk; cp@p-engineering.dk; +45 25 26 88 05

P-Engineering Pipe Specification Overview

S Stainless Steel

S93 Stainless Steel; 1.4404

Rating: PN16

Assembly: Pressing Press with Pressing Tool / Matrix

PED: Supplier PED by Supplier Specification

Supplier: Broen

Surface, Inner: N/A N/A

Cooling I	PN10	General Cooling 35% Glycol	8	50
Cooling II	PN16	General Cooling 35% Glycol	12	50
Water Osmosis	PN10	Osmosis Water	8	40
Water Tap Cold	PN10	General Tap Water	8	40
Water Tap Cold	PN16	General Tap Water	14	40
Water Tap Hot	PN10	General Hot Tap Water	7	80
Water Tap Hot	PN16	General Hot Tap Water	12	80
Water Technical	PN10	Technical Water General	8	50

P-Engineering:

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P-Engineering Pipe Specification Overview

S Stainless Steel

S99 Stainless Steel Piping 316CW

Rating: 1000

Assembly: Compression I Compression connection tighten with tool

PED: ASME ASME Standard

Supplier: Butech

Surface, Inner: N/A N/A

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P-Engineering:

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P-Engineering Pipe Specification Overview

T Titanium

T02 Titanium Pending

Rating: PN10

Assembly: Welded Welded acc. WPS

PED: PED Compliance EN13480

Supplier: General EN-Series

Surface, Inner: N/A N/A

Water Sea	PN10	Seawater Salinity 3.8%	8	50

P-Engineering:

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P-Engineering Pipe Specification Overview

T Titanium

T03 Titanium Pending

Rating: **PN16**

Assembly: Welded Welded acc. WPS

PED: PED Compliance EN13480

Supplier: General EN-Series

Surface, Inner: N/A N/A

Water Sea	PN10	Seawater Salinity 3.8%	8	50
Water Sea	PN10	Seawater Salinity 3.8%	8	50

P-Engineering:

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