## Plantvare

### **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



A12 Rating: Assembly: PED:	Cast Iron N/A	Sewage Pipe; SML Coating		
Assembly:	N/A			
_				
PED:	Clamp	Clamp with Gasket with Bolting		
	N/A	Not relevant		
Supplier:	DUKER			
Surface, Inner:	SML	SML Coating		
Sewage, Black N	N/A Sewage Toile	et etc.	0	20
Sewage, Gray N	N/A Sewage gene	eral	0	20



Sewage, Fatty N/A Sewage from Kitchen 0 50	Α	С	ast I	ron			
Assembly:ClampClamp with Gasket with BoltingPED:N/ANot relevantSupplier:DUKERSurface, Inner:SMLSML CoatingSewage, BlackN/ASewage Toilet etc.9020Sewage, FattyN/ASewage from Kitchen050	A13	С	Cast Iron Sewage Pipe; MLK Coating				
PED: N/A Not relevant   Supplier: DUKER SML Coating   Sewage, Black N/A Sewage Toilet etc. 9 0 20   Sewage, Fatty N/A Sewage from Kitchen 0 50	Rating:	N	I/A				
Supplier: DUKER   Surface, Inner: SML   SML Coating Sewage, Black   N/A Sewage Toilet etc.   Sewage, Fatty N/A   Sewage from Kitchen 0	Assembly:	Cl	amp	Clamp with G	Gasket with Bolting		
Surface, Inner: SML SML Coating   Sewage, Black N/A Sewage Toilet etc. 9 0 20   Sewage, Fatty N/A Sewage from Kitchen 0 50	PED:	N/	/A	Not relevant			
Sewage, BlackN/ASewage Toilet etc.9020Sewage, FattyN/ASewage from Kitchen050	Supplier:	DI	JKER				
Sewage, Fatty N/A Sewage from Kitchen 0 50	Surface, Inner	: SN	٩L	SML Coating			
	Sewage, Black	N/A	Sewage	Toilet etc.	9	0	20
Sewage, Gray N/A Sewage general 0 20	Sewage, Fatty	N/A	Sewage	from Kitchen		0	50
	Sewage, Gray	N/A	Sewage	general		0	20

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Α	С	ast Iron	า		
A14	С	ast Iror	n Sewage Pipe; TML Coating		
Rating:	N	I/A			
Assembly:	Cl	amp	Clamp with Gasket with Bolting		
PED:	N/	/A	Not relevant		
Supplier:	Dl	UKER			
Surface, Inner	: SN	ML	SML Coating		
Sewage, Black	N/A	Sewage Toi	let etc. 9	0	20
Sewage, Fatty	N/A	Sewage from	n Kitchen	0	50
Sewage, Gray	N/A	Sewage ger	Sewage general		
Sewage, Oily	N/A	Sewage Par	king etc.	0	20
Sewage, Oily	N/A	Sewage Par	king etc.	0	20



С	Carbon S	iteel	
C00	Black Ste	el Welded PN2.5	
Rating:	PN02.5		
Assembly:	Welded	Welded acc. WPS	
PED:	PED	Complience	EN13480
Supplier:	General EN-Ser	ries	
Surface, Inner:	Pharma	Ra < 0,8 my	



С	Carbon S	Steel	
C01	Black St	eel Welded PN06	
Rating:	PN06		
Assembly:	Welded	Welded acc. WPS	
PED:	PED	Complience	EN13480
Supplier:	General EN-Se	ries	
Surface, Inner:	Black Steel 1	Sandblastet	
Oil Diesel I P	N06 Diesel Oil		4 50
			1 30



С	C	arbon S	teel			
C02	B	lack Ste	110			
Rating:	P	N10				
Assembly:	We	elded	Welded acc. WPS			
PED:	PE	D	Complience		EN13	3480
Supplier:	Ge	eneral EN-Ser	ies			
Surface, Inner:	Bla	ack Steel 1	Sandblastet			
Cooling I	PN10	General Coo	ling 35% Glycol	Surface Painting	8	50
Cooling Onshore LNG	PN10	Glycol for LN	IG etc.	Surface Painting	6	-180
Heating Central	PN10	General Hea	ting Systems		8	100
LNG	PN10	Liquified Nat	crural Gas	On shore	6	-180
Oil Diesel II	PN10	Diesel Oil	Diesel Oil		8	50
Sprinkler	PN10	General Spri	nkler Installation		8	25
Steam Condensate II	PN10	Pressurized	Condensate from Steam		8	100
Steam Raw	PN10	Industrial St	eam System		6	165

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С	С	Carbon Steel					
<b>C03</b>	В	lack Ste					
Rating:	Ρ	N16					
Assembly:	We	elded	Welded acc. WPS				
PED:	PE	Ð	Complience		EN13	3480	
Supplier:	Ge	eneral EN-Ser	ies				
Surface, Inner:	Bla	ack Steel 1	Sandblastet				
Cooling I	PN10	General Coo	ling 35% Glycol	Surface Painting	8	50	
Cooling II	PN16	General Coo	ling 35% Glycol	Surface Painting	12	50	
Cooling Onshore LNG	PN10	Glycol for LN	Glycol for LNG etc. Surface Painting		6	-180	
Cooling Onshore LNG	PN16	Glycol for LN	Glycol for LNG Cooling etc. Surface Paintir		12	-180	
Heating Central	PN10	General Hea	ting Systems		8	100	
Heating Central	PN16	General Hea	ting Systems		14	100	
Heating District	PN16	District Heat	ing		13	120	
LNG	PN16	Liquified Nat	rural Gas	On shore	12	-180	
Sprinkler	PN10	General Spri	nkler Installation		8	25	
Sprinkler	PN16	General Spri	nkler 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 St	eam System		6	165	
Steam Raw	PN16	Industrial St	eam System		10	184	

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С	С	arbon S	iteel			
<b>C04</b>	В	Black Steel Welded PN25				
Rating:	Ρ	N25				
Assembly:	We	elded	Welded acc. WPS			
PED:	PE	D	Complience		EN13	3480
Supplier:	Ge	neral EN-Ser	ies			
Surface, Inner	: Bla	ack Steel 1	Sandblastet			
Cooling III	PN25	General Coo	ling 35% Glycol	Surface Painting	20	50
Cooling Onshore LNG	PN25	Glycol for LN	IG Cooling etc.	Surface Painting	20	-180
Heating Central	PN25	General Hea	ting Systems		22	100
Heating Central	PN40	General Hea	General Heating Systems			100
Heating District	PN16	District Heat	ing		13	120
LNG	PN25	Liquified Nat	trural Gas	On shore	20	-180
Sprinkler	PN25	General Spri	nkler Installation		23	25
Steam Raw	PN25	Industrial St	eam System		18	210

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С	Carbon S	Steel		
C05	Black Steel Welded PN40			
Rating:	<b>PN40</b>			
Assembly:	Welded	Welded acc. WPS		
PED:	PED	Complience	EN13	3480
Supplier:	General EN-Se	eries		
Surface, Inner:	Black Steel 1	Sandblastet		
Steam Raw P	N40 Industrial S	iteam System	30	253

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С	Carbon S	Steel	
<b>C06</b>	Black St	eel Welded PN64	
Rating:	<b>PN64</b>		
Assembly:	Welded	Welded acc. WPS	
PED:	PED	Complience	EN13480
Supplier:	General EN-Se	eries	
Surface, Inner:	Black Steel 1	Sandblastet	
Steam Raw	N64 Industrial S	iteam System	50 26



С	Carbon Steel				
C07	Black Ste	Black Steel Welded PN100			
Rating:	PN100				
Assembly:	Welded	Welded acc. WPS			
PED:	PED	Complience	EN13480		
Supplier:	General EN-Se	ries			
Surface, Inner:	Black Steel 1	Sandblastet			



С	Carbon Steel					
C12	Black Steel Welded PN10 - N-Gas Application					
Rating:	PN10					
Assembly:	Welded	Welded acc. WPS				
PED:	PED	Complience	EN134	180		
Supplier:	General EN-Se	ries - Bend+Bauart5				
Surface, Inner:	Black Steel 1	Sandblastet				
N-Gas II P	N10 N-Gas Distr	ibution	6	。 50		



С	Carbon S	Steel		
C13	Black Ste Applicat	eel Welded PN16 - N-Gas ion		
Rating:	PN16			
Assembly:	Welded	Welded acc. WPS		
PED:	PED	Complience	EN134	180
Supplier:	General EN-Se	ries - Bend+Bauart5		
Surface, Inner:	Black Steel 1	Sandblastet		10
N-Gas III P	N16 N-Gas Distr	ibution	12	50



С	Carbon S	Steel		
C14	Black St Applicat	eel Welded PN25 - N-Gas ion		
Rating:	PN25			
Assembly:	Welded	Welded acc. WPS		
PED:	PED	Complience	EN134	480
Supplier:	General EN-Se	ries - Bend+Bauart5		
Surface, Inner:	Black Steel 1	Sandblastet		11
N-Gas IV P	N25 N-Gas Distr	ibution	20	50



С	Carbon S	Steel	
C15	Black Sto Applicati	eel Welded PN40 - N-Gas ion	
Rating:	<b>PN40</b>		
Assembly:	Welded	Welded acc. WPS	
PED:	PED	Complience	EN13480
Supplier:	General EN-Se	ries - Bend+Bauart5	
Surface, Inner:	Black Steel 1	Sandblastet	12



С	Carbon S	Steel	
C16	Black Ste Applicat	eel Welded PN64 - N-Gas ion	
Rating:	<b>PN64</b>		
Assembly:	Welded	Welded acc. WPS	
PED:	PED	Complience	EN13480
Supplier:	General EN-Se	ries - Bend+Bauart5	
Surface, Inner:	Black Steel 1	Sandblastet	



С	Carbon S	Steel	
C17	Black Sto Applicati	eel Welded PN100 - N-Ga ion	IS
Rating:	PN100		
Assembly:	Welded	Welded acc. WPS	
PED:	PED	Complience	EN13480
Supplier:	General EN-Se	ries - Bend+Bauart5	
Surface, Inner:	Black Steel 1	Sandblastet	14
N-Gas VII P	N100 N-Gas Distr	ibution Main	80 50



	Carl	oon S	Steel			
C22	Blac	k Ste	eel Piping			
Rating:	PN1	0				
Assembly:	Clamp		Clamp with Gask	et with Bolting		
PED:	Declara	ation	Supplier Compon	ent Declaration		
Supplier:	Vitaulio	2				
Surface, Inner	Black S	Steel 2	No action			
Cooling I	PN10 Ger	neral Coo	oling 35% Glycol	Surface Painting	8	50
Heating Central	PN10 Ger	neral Hea	ating Systems		8	100
Sprinkler	PN10 Ger	neral Spr	inkler Installation		8	25



-	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 Centra	PN16 General Heating Systems	14	100
Sprinkler	PN16 General Sprinkler Installation	14	25



	Ca	arbon S	Steel			
C24	B	ack St	eel Piping			
Rating:	P	N25				
Assembly:	Cla	Imp	Clamp with Gask	et with Bolting		
PED:	De	claration	Supplier Compor	nent Declaration		
Supplier:	Vita	aulic				
Surface, Inner	: Bla	ick Steel 2	No action			
Cooling III	PN25	General Co	oling 35% Glycol	Surface Painting	20	50
Heating Central	PN25	General He	ating Systems		22	100
Sprinkler	PN25	General Sp	rinkler Installation		23	25

С	C	arbon Steel		
C33	Fi	tted Pipping Black Steel		
Rating:	Ρ	N16		
Assembly:	Fit	ted With "Garn & Salve"		
PED:	De	claration Supplier Component Declaration		
Supplier:	+0	βF+		
Surface, Inner:	Bla	ack Steel 2 No action		
Cooling I	PN10	General Cooling 35% Glycol Surface Painting	8	<sup>3</sup>
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



С	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



C39Pressition Tubes E235 / W1.035Rating:PN300Assembly:Compression II DIN 2353 pipe fittings (connection with a cutting ring)PED:SupplierPED:SupplierBupplier:General EN-Series EN 10305-4	С	Carbon S	Steel		
Rating:PN300Assembly:Compression II DIN 2353 pipe fittings (connection with a cutting ring)PED:SupplierBupplier:PED by Supplier SpecificationGeneral EN-SeriesEN 10305-4					
Assembly:Compression II DIN 2353 pipe fittings (connection with a cutting ring)PED:SupplierPED by Supplier SpecificationSupplier:General EN-Series EN 10305-4	C39	Pressitio	on Tubes E235 / W1.035		
PED:SupplierPED by Supplier SpecificationSupplier:General EN-SeriesEN 10305-4	Rating:	PN300			
Supplier: General EN-Series EN 10305-4	Assembly:	Compression I	I DIN 2353 pipe fittings (connection with a cut	tting rii	ng)
••	PED:	Supplier	PED by Supplier Specification		
Surface, Inner: Zink Zinc-plated coating	Supplier:	General EN-Se	ries EN 10305-4		
	Surface, Inner:	Zink	Zinc-plated coating		
Dil HydraulicPN300 Hydraulic Oil for Motion System30010	Oil Hydraulic Pl	N300 Hydraulic O	il for Motion System	300	100

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С	C	Carbon Steel					
C43	Fi	Fitted Pipping Black Steel					
Rating:	Ρ	N16					
Assembly:	Fit	ted	With "Garn & Salv	/e"			
PED:	De	claration	Supplier Compone	nt Declaration			
Supplier:	+0	F+					
Surface, Inner	: Ga	lvanized	Hot Dip Galvanized	t			
Cooling I	PN10	General Co	ooling 35% Glycol	Surface Painting	8	50	
Cooling II	PN16	General Co	ooling 35% Glycol	Surface Painting	12	50	
Heating Central	PN10	General He	eating Systems		8	100	
Heating Central	PN16	General He	eating Systems		14	100	
Heating Floor	PN06	General Fl	oor Heating system		5	50	
Oil Diesel I	PN06	Diesel Oil			4	50	
Oil Diesel II	PN10	Diesel Oil			8	50	
Sprinkler	PN10	General Sp	prinkler Installation		8	25	
Sprinkler	PN16	General Sp	prinkler Installation		14	25	

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С	Carbon	Steel
C44	Fitted Pi	ipping 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**

С	C	arbon S	Steel		
C52	B	lack St	eel Piping		
Rating:	Ρ	N10			
Assembly:	We	elded	Welded acc. WPS		
PED:	PE	D	Complience	EN134	180
Supplier:	Ge	neral EN-Se	ries with rubber Lining		
Surface, Inner	: Lin	ned	Rubber Lining		
Slurry I	PN10	Water Slurr	y with partickles	8	50
Water w. Bio residue	PN10	Technical W Bactecia	/ater with Bio Residue /	8	50

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### **P-Engineering Pipe Specification Overview**

С	C	arbon Steel		
C53	B	lack Steel Piping		
Rating:	P	N16		
Assembly:	We	elded Welded acc. WPS		
PED:	PE	D Complience	EN134	480
Supplier:	Ge	neral EN-Series with rubber Lining		
Surface, Inner	: Lin	ed 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



С	Carbon S	Steel	
C54	Black Ste	eel Piping	
Rating:	PN25		
Assembly:	Welded	Welded acc. WPS	
PED:	PED	Complience	EN13480
Supplier:	General EN-Se	ries with rubber Lining	
Surface, Inner:	Lined	Rubber Lining	59



С	C	arbon S	Steel			
C62	B	lack Ste	eel Piping Ma	rine		
Rating:	P	N10				
Assembly:	We	elded	Welded acc. WPS			
PED:	PE	D	Complience		EN13	3480
Supplier:	Ge	neral EN-Sei	ries with Groove/Tung	ue		
Surface, Inner	Bla	ack Steel 1	Sandblastet			
Cooling Marine LNG	PN10	Glycol for Ll	NG etc.	Surface Treatment	6	-180
LNG	PN10	Liquified Na	trural Gas	Surface Treatment - Marine	6	-180



С	C	arbon S	Steel			
C63	В	lack Ste	eel Piping M	arine		
Rating:	Ρ	N16				
Assembly:	We	elded	Welded acc. WPS			
PED:	PE	D	Complience		EN13	3480
Supplier:	Ge	neral EN-Se	ries with Groove/Tu	ngue		
Surface, Inner	Bla	ack Steel 1	Sandblastet			
Cooling Marine LNG	PN16	Glycol for Ll	NG Cooling etc.	Surface Treatment	12	-180
LNG	PN16	Liquified Na	trural Gas	Surface Treatment - Marine	12	-180



С	C	arbon S	Steel			
C64	В	lack Ste	eel Piping M	arine		
Rating:	Ρ	N25				
Assembly:	We	elded	Welded acc. WPS			
PED:	PE	D	Complience		EN13	3480
Supplier:	Ge	eneral EN-Se	ries with Groove/Tu	ngue		
Surface, Inner	Bla	ack Steel 1	Sandblastet			
Cooling Marine LNG	PN25	Glycol for Ll	NG Cooling etc.	Surface Treatment	20	-180
LNG	PN25	Liquified Na	trural Gas	Surface Treatment - Marine	20	-180



	Carbon		Steel		
C73	B	lack St	eel Press Piping		
Rating:	Ρ	N16			
Assembly:	Pre	essing	Press with Pressing Tool / Matrix		
PED:	Su	pplier	PED by Supplier Specification		
Supplier:	Vie	ega			
Surface, Inner	: FZ		FZ Plated		
Heating Centra	PN10	General Hea	ating Systems	8	100
Heating Centra	PN16	General Hea	ating Systems	14	100
Heating Floor	PN06	General Flo	or Heating system	5	50



Rating:PN16Assembly:PressingPress with Pressing Tool / MatrixPED:SupplierPED by Supplier Specification	С	C	arbon S	Steel		
Assembly:PressingPress with Pressing Tool / MatrixPED:SupplierPED by Supplier SpecificationSupplier:Blucher MapressSurface, Inner:FZFZ PlatedHeating CentralPN10General Heating Systems8100Heating CentralPN16General Heating Systems14100	C83	B	lack Ste	el Press Piping		
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	Rating:	Ρ	N16			
Supplier: Blucher Mapress   Surface, Inner: FZ FZ Plated   Heating Central PN10 General Heating Systems 8 100   Heating Central PN16 General Heating Systems 14 100	Assembly:	Pr€	essing	Press with Pressing Tool / Matrix		
Surface, Inner:FZFZ PlatedHeating CentralPN10General Heating Systems8100Heating CentralPN16General Heating Systems14100	PED:	Su	pplier	PED by Supplier Specification		
Heating CentralPN10General Heating Systems8100Heating CentralPN16General Heating Systems14100	Supplier:	Blu	icher Mapres	SS		
Heating Central PN16 General Heating Systems 14 100	Surface, Inner	: FZ		FZ Plated		
	Heating Central	PN10	General Hea	ating Systems	8	100
Heating Floor PN06 General Floor Heating system 5 50	Heating Central	PN16	General Hea	ating Systems	14	100
	Heating Floor					
		PN06	General Floo	or Heating system	5	50

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С	Carbon		Steel		
C93	В	lack Ste	eel Press Piping		
Rating:	Ρ	N16			
Assembly:	Pre	essing	Press with Pressing Tool / Matrix		
PED:	Su	Ipplier	PED by Supplier Specification		
Supplier:	Bro	oen			
Surface, Inner	: FZ		FZ Plated		
Heating Central	PN10	General Hea	ating Systems	8	100
Heating Centra	PN16	General Hea	ating Systems	14	100
Heating Floor	PN06	General Floo	or Heating system	5	50



D	Duplex S	Steel	
D91	Duplex S	Steel for Super Critical Proce	ess
Rating:	300		
Assembly:	Welded	Welded acc. WPS	
PED:	PED	Complience	EN13480
Supplier:	Special Series		
Surface, Inner:	N/A	N/A	3



G*	Ρ	EX			
G02	Ρ	EX Pipi	ng max 70C		
Rating:	Ρ	N10			
Assembly:	Со	mpression I	Compression connection tighten with tool		
PED:	Su	pplier	PED by Supplier Specification		
Supplier:	Ge	eneric SDR9			
Surface, Inner	: N/.	A	N/A		
Water Osmosis	PN10	Osmosis Wa	ater	8	40
Water Tap Cold	PN10	General Tap	Water	8	40
Water Technical	PN10	Technical W	ater General	8	50



G*	Ρ	EX		
G12	Ρ	EX Piping max 70C with Oxyger	n Barrie	er
Rating:	Ρ	N10		
Assembly:	Со	mpression I Compression connection tighten with to	ol	
PED:	Su	pplier PED by Supplier Specification		
Supplier:	Ge	neric 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



G*	Ρ	EX		
G21	Ρ	EX Piping max 95C		
Rating:	Ρ	N06		
Assembly:	Со	mpression I Compression connection tighten with tool		
PED:	Su	pplier PED by Supplier Specification		
Supplier:	Ge	neric 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



G*	PEX			
G31	<b>PEX</b> Pipin	g max 95C with Oxygen Ba	rrie	r
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 Pl	106 General Floor	r Heating system	5	50



J*	PP and P	Ε
J03	<b>PP-RCT</b>	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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J22PE100 Pipe SystemRating:PN10Assembly:Butt FusionMirror Welding / Butt FusionPED:SupplierPED by Supplier SpecificationSupplier:GeneralSurface, Inner:N/AN/AAcid HCI 30%PN10Hydrocloric Acid 30%650Acid Industry, GeneralPN10Acid General Industrial Grade850Lye Industry, Gen,PN10Acid General Industrial Grade850Lye Industry, Gen,PN10Acid General Industrial Grade850Lye Pharma, GeneralPN10Acid General Industrial Grade850Supplice:PN10Acid General Pharma Grade850Supplice:PN10Acid General Pharma Grade850Supplice:PN10Acid General Pharma Grade850					
Assembly:Butt FusionMirror Welding / Butt FusionPED:SupplierPED by Supplier SpecificationSupplier:GeneralSurface, Inner:N/AN/AAcid HCI 30%PN10Hydrocloric Acid 30%650Acid Industry, Gen,PN10Acid General Industrial Grade850Acid Pharma, Gen,PN10Acid General Pharma Grade850Lye Industry, Gen,PN10Acid General Pharma Grade850Lye Pharma, Gen,PN10Acid General Pharma Grade850	P	E100 Pi	pe System		
PED: Supplier PED by Supplier Specification   Supplier: General   Surface, Inner: N/A N/A   Acid HCI 30% PN10 Hydrocloric 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 Acid General Industrial Grade 8 50   Lye Pharma, PN10 Acid General Pharma Grade 8 50   Lye Pharma, PN10 Acid General Pharma Grade 8 50	P	N10			
Supplier:GeneralSurface, Inner:N/AN/AAcid HCI 30%PN10Hydrocloric Acid 30%650Acid Industry, Gen,PN10Acid General Industrial Grade850Acid Pharma, GeneralPN10Acid General Pharma Grade850Lye Industry, Gen,PN10Lye General Industrial Grade850Lye Pharma, PN10PN10Acid General Pharma Grade850Supplier:PN10Acid General Pharma Grade850Supplier:PN10Acid General Pharma Grade850	But	tt Fusion	Mirror Welding / Butt Fusion		
Surface, Inner:N/AN/AAcid HCl 30%PN10Hydrocloric Acid 30%650Acid Industry, Gen,PN10Acid General Industrial Grade850Acid Pharma, GeneralPN10Acid General Pharma Grade850Lye Industry, Gen,PN10Lye General Industrial Grade850Lye Pharma, PN10PN10Acid General Pharma Grade850SupplementationSupplementation850SupplementationSupplementation850SupplementationSupplementation850SupplementationSupplementation850SupplementationSupplementation850Supplementation<	Su	pplier	PED by Supplier Specification		
Acid HCl 30%PN10Hydrocloric Acid 30%650Acid Industry, Gen,PN10Acid General Industrial Grade850Acid Pharma, GeneralPN10Acid General Pharma Grade850Lye Industry, Gen,PN10Lye General Industrial Grade850Lye Pharma, PN10PN10Acid General Pharma Grade850Lye Pharma, PN10PN10Acid General Pharma Grade850	Ge	neral			
Acid Industry, Gen,PN10Acid General Industrial Grade850Acid Pharma, GeneralPN10Acid General Pharma Grade850Lye Industry, Gen,PN10Lye General Industrial Grade850Lye Pharma,PN10Acid General Pharma Grade850SubscriptionSubscriptionSubscription850SubscriptionSubscriptionSubscription850SubscriptionSubscriptionSubscription850SubscriptionSubscriptionSubscription850SubscriptionSubscriptionSubscription850SubscriptionSubscriptionSubscription850SubscriptionSubscriptionSubscription850SubscriptionSubscriptionSubscription850SubscriptionSubscriptionSubscription850Subscription<	N//	A	N/A		
Gen,Acid Pharma, GeneralPN10Acid General Pharma Grade850Lye Industry, Gen,PN10Lye General Industrial Grade850Lye Pharma,PN10Acid General Pharma Grade850	PN10	Hydrocloric A	Acid 30%	6	50
GeneralLye Industry, Gen,PN10Lye General Industrial Grade850Lye Pharma,PN10Acid General Pharma Grade850	PN10	Acid General	Industrial Grade	8	50
Gen,Lye Pharma,PN10Acid General Pharma Grade850	PN10	Acid General	Pharma Grade	8	50
	PN10	Lye General	Industrial Grade	8	50
	PN10	Acid General	Pharma Grade	8	50
		P Bu Su Ge N/A PN10 PN10 PN10	PN10 Butt Fusion Supplier General N/A PN10 Hydrocloric A PN10 Acid General PN10 Acid General PN10 Lye General	PN10   Butt Fusion Mirror Welding / Butt Fusion   Supplier PED by Supplier Specification   General N/A   N/A N/A   PN10 Hydrocloric Acid 30%   PN10 Acid General Industrial Grade   PN10 Acid General Industrial Grade   PN10 Lye General Industrial Grade	PN10   Butt Fusion Mirror Welding / Butt Fusion   Supplier PED by Supplier Specification   General N/A   N/A N/A   PN10 Hydrocloric Acid 30% 6   PN10 Acid General Industrial Grade 8   PN10 Acid General Industrial Grade 8   PN10 Lye General Industrial Grade 8



J*	PP and P	E		
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 P	N10 General Tap	Water	8	40

К	Cupper Alloys			
K43	<b>Cupper Piping - Compression</b>			
Rating:	PN16			
Assembly:	Compression II DIN 2353 pipe fittings (connection with a cuttin	ıg rir	ng)	
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	



K	Cupper A	Alloys		
K53	Cupper l	Piping - Solded		
Rating:	<b>PN16</b>			
Assembly:	Soldering	With Flush		
PED:	Supplier	PED by Supplier Specification		
Supplier:	Generic			
Surface, Inner:	N/A	N/A		55
<b>CO2</b> PI	N10 Industrial (	Cooling System	6	-40

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Κ	Cupper	Alloys		
K93	Cupper	Piping - Pressed		
Rating:	<b>PN16</b>			
Assembly:	Pressing	Press with Pressing Tool / Matrix		
PED:	Supplier	PED by Supplier Specification		
Supplier:	Broen			
Surface, Inner:	N/A	N/A		
N-Gas I P	N06 N-Gas Dis	stribution	1	50

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L*	Ρ۷С	
L41	Wawin S	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 50



<b>M</b> *	A	ncl. Aluminium v	vith	Plas				
M82	Μ	ILS Metallic Pipe PLUS max 70C						
Rating:	Ρ	N10						
Assembly:	Со	mpression I	Compression co	nnection tighten with tool				
PED:	Su	pplier	PED by Supplier	r Specification				
Supplier:	Up	onor						
Surface, Inner:	: N/	A	N/A					
Heating Central	PN10	General Hea	iting Systems	Max temp.!	8	ء 100		
Water Osmosis	PN10	Osmosis Wa	iter	·	8	40		
Water Tap Cold	PN10	General Tap	General Tap Water					
Water Tap Hot	PN10	General Hot	Tap Water	Max Temp.!	7	80		
Water Technical	PN10	Technical W	ater General		8	50		

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<b>M</b> *	A	luminiu	m Alloys	incl. Aluminium wi	th	Plas	
M92	Μ	1LS Uni Pipe PLUS max 70C - Hvid					
Rating:	Ρ	N10					
Assembly:	Со	mpression I	Compression	connection tighten with tool			
PED:	Su	pplier	PED by Suppl	lier Specification			
Supplier:	Up	onor					
Surface, Inner:			N/A				
Heating Central	PN10	General Hea	ting Systems	Max temp.!	8	100	
Water Osmosis		Osmosis Wa	5,	F	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 Wa	ater General		8	50	

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Ρ	P	olymer		
P03	G	RP Piping		
Rating:	Ρ	N16		
Assembly:	Glu	Male/Female Socket with Glue		
PED:	De	claration Supplier Component Declaration		
Supplier:	Ge	neral		
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: Gyden 6, DK5970 Ærøskøbing; www.p-engineering.dk; cp@p-engineering.dk; +45 25 26 88 05



Ρ	Ρ	olymer					
P41	G	Geberit Silent PP Sewage Piping					
Rating:	N	I/A					
Assembly:	Sl	eeve M/F	Male - Female Sleeve Connection				
PED:	N/	/Α	Not relevant				
Supplier:	Ge	eberit					
Surface, Inner	: N/	/Α	N/A				
Sewage, Black	N/A	Sewage To	ilet etc.	0	20		
Sewage, Gray	N/A	Sewage ge	Sewage general		20		
Sewage, Oily	N/A	Sewage Pa	Sewage Parking etc.		20		
Sewage; Rain Water	N/A	Rain Water	, Gravity	0	0		



Ρ	Ρ	olymer			
P93	н	ose (TP	U) and Fittings		
Rating:	Ρ	N16			
Assembly:	Со	mpression I	Compression connection tighten with tool		
PED:	Su	pplier	PED by Supplier Specification		
Supplier:	Ge	eneral			
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



Rating:IAssembly:VPED:PSupplier:G	PN16 Velded PED General EN-Ser N/A D Lye General	N/A Industrial Grade	EN13 8	480 50
Assembly: V PED: P Supplier: G Surface, Inner: N Lye Industry, PN10 Gen, PN10	Velded PED General EN-Ser N/A D Lye General	Complience ries N/A Industrial Grade	8	
PED: PED: PED: PED: PED: PED: PED: PED:	PED General EN-Ser N/A D Lye General	Complience ries N/A Industrial Grade	8	
Supplier:GSurface, Inner:MLye Industry, Gen,PN10Water OsmosisPN10	General EN-Ser N/A D Lye General	ries N/A Industrial Grade	8	
Surface, Inner: N Lye Industry, PN10 Gen, Water Osmosis PN10	N/A D Lye General	N/A Industrial Grade		50
Lye Industry, PN10 Gen, Water Osmosis PN10	) Lye General	Industrial Grade		50
Gen, Water Osmosis PN10				50
	0 Osmosis Wa	ater		
Water Sea PN10			8	40
	0 Seawater Sa	Seawater Salinity 3.8%		
Water Tap Cold PN10	0 General Tap	Water	8	40
Water Tap Cold PN16	6 General Tap	Water	14	40
Water Tap Hot PN10	0 General Hot	General Hot Tap Water		80
Water Tap Hot PN16	6 General Hot	General Hot Tap Water		80
Water PN10 Technical	0 Technical W	'ater General	8	50
Water w. Bio PN10 residue	0 Technical W Bactecia	/ater with Bio Residue /	8	50

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



R	S	tainless	Steel - 6 Mo type		
R09	I	nstrume	ent Piping		
Rating:	1	00			
Assembly:	Со	mpression I	Compression connection tighten with tool		
PED:	PE	D	Complience	EN13	480
Supplier:	Pe	nding			
Surface, Inner	: N/.	A	N/A		6
Flue Gas I	PN00	Flue Gas		0	300
Flue Gas II	PN00	Flue Gas		0	600

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

S Stainless Steel				
<b>S02</b>	_	ainless Steel 1.4307 Welded PN: oose flange	10,	
Rating:	Ρ	N10		
Assembly:	We	lded w. Iner Welded acc. WPS		
PED:	PE	D Complience	EN13	8480
Supplier:	Ge	neral 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	C
Sewage; Rain Water	N/A	Rain Water, Gravity	0	0
Sewage; Rain Water	N/A	Rain Water, Siphon system	0	0

#### **P-Engineering:**

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

S	S	Stainless Steel						
<b>S03</b>	S	Stainless Steel 1.4307 Welded PN16						
Rating:	Ρ	N16						
Assembly:	We	lded w. Iner Welded acc. WPS						
PED:	PE	D Complience	EN13	3480				
Supplier:	Ge	neral 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		50				
Cooling Onshore LNG	PN10	Glycol for LNG etc.		-180				
Cooling Onshore LNG	PN16	Glycol for LNG Cooling etc.		-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:**



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



S	S	tainless	Steel			
<b>S04</b>	Stainless Steel 1.4307 Welded PN25					
Rating:	Ρ	N25				
Assembly:	We	elded w. Iner	Welded acc. WPS			
PED:	PE	D	Complience	EN13	8480	
Supplier:	Ge	neral EN-Ser	ies			
Surface, Inner	: N/	A	N/A			
Cooling III	PN25	General Coo	ling 35% Glycol	20	50	
Cooling Onshore LNG	PN16	Glycol for LN	IG Cooling etc.	12	-180	
Cooling Onshore LNG	PN25	Glycol for LN	IG Cooling etc.	20	-180	



S	S	tainless	Steel		
<b>S09</b>	I	nstrume	ent Piping		
Rating:	Ρ	N100			
Assembly:	Со	mpression I	Compression connection tighten with tool		
PED:	PE	D	Complience	EN13	480
Supplier:	Pe	nding			
Surface, Inner	: N/.	A	N/A		67
Flue Gas I	PN00	Flue Gas		0	300
Flue Gas II	PN00	Flue Gas		0	600

S	S	ainless Steel		
S12		ainless Steel 1.4404 Welded PN	10,	
Rating:	Ρ	N10		
Assembly:	We	lded w. Iner Welded acc. WPS		
PED:	PE	D Complience	EN13	8480
Supplier:	Ge	neral 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:**



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

S	S	tainless Steel		
S13	S	tainless Steel 1.4404 Welded PN16	5	
Rating:	Ρ	N16		
Assembly:	We	elded w. Iner Welded acc. WPS		
PED:	PE	D Complience	EN13	3480
Supplier:	Ge	neral 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:**

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



S	Stainle	ess Steel			
<b>S14</b>	Stainle	ess Steel 1.44	04 Welded P	N25	
Rating:	PN25				
Assembly:	Welded w.	Iner Welded acc. WP	S		
PED:	PED	Complience		EN13	480
Supplier:	General EN	-Series			
Surface, Inner	N/A	N/A			
Cooling III	PN25 General	Cooling 35% Glycol		20	50
Cooling Marine LNG	PN25 Glycol fo	or LNG Cooling etc.	On-shore	20	-180

S	S	tainless	Steel			
S23	523 Pharma Piping - EN 10357 Series 1 (Diary Pipe				40	4
Rating:	P	N16				
Assembly:	We	elded w. Iner	Welded acc. WPS			
PED:	PE	D	Complience		EN13	480
Supplier:	Alf	a Laval				
Surface, Inner	Ph	arma	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 Clea	ning Installations		0	0
Ethanol I	PN10	Ethanol Solv	thanol Solvent %		6	50
Lye Pharma, General	PN10	Acid General	cid General Pharma Grade		8	50
Methanol I	PN10	Methanol So	lvent %		6	30
Steam Clean	PN10	Pharma Stea	am System		6	165
Steam Clean	PN16	Pharma Stea	am System		10	184

S	S	tainless Steel		
<b>S26</b>	Ρ	harma Piping - EN 10217 Series	<b>5 1.440</b>	4
Rating:	Ρ	N16		
Assembly:	We	elded w. Iner Welded acc. WPS		
PED:	PE	D Complience	EN13	480
Supplier:	Alf	a Laval		
Surface, Inner	: Ph	arma 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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Compressed IAir Compressed IIPN16Compressed Air Industrial Grade123Cooling IPN10General Cooling 35% Glycol85Cooling IIPN16General Cooling 35% Glycol125Cooling Marine LNGPN10Glycol for LNG etc.6-18Cooling Marine LNGPN16Glycol for LNG cooling etc.12-18Cooling Onshore LNGPN10Glycol for LNG etc.6-18Cooling Onshore LNGPN16Glycol for LNG etc.6-18Cooling Onshore LNGPN16Glycol for LNG etc.6-18Cooling Onshore LNGPN16Glycol for LNG etc.12-18Cooling Onshore LNGPN16Glycol for LNG etc.12-18Cooling Onshore LNGPN16Glycol for LNG cooling etc.12-18	S	S	tainless	Steel		
Assembly: Fitted With "Garn & Salve"   PED: Declaration Supplier Component Declaration   Supplier: Generic   Surface, Inner: N/A N/A   Air PN10 Compressed Air Industrial Grade 8 3   Compressed I PN10 Compressed Air Industrial Grade 12 3   Air PN10 General Cooling 35% Glycol 8 5   Cooling I PN10 General Cooling 35% Glycol 8 5   Cooling Marine PN10 Glycol for LNG etc. 6 -18   Cooling Marine PN10 Glycol for LNG cooling etc. 12 -18   Cooling PN10 Glycol for LNG etc. 6 -18   Cooling PN10 Glycol for LNG cooling etc. 12 -18   Cooling PN10 Glycol for LNG cooling etc. 12 -18   Cooling PN10 Glycol for LNG cooling etc. 12 -18   Cooling PN10 Glycol for LNG cooling etc. 12 -18   Cooling PN16 Glycol for LNG cooling etc. 12	S33	Fi	itted Pip	bing Stainless Steel 1.4307		
PED:DeclarationSupplier Component DeclarationSupplier:GenericSurface, Inner:N/AN/AAir Compressed IPN10Compressed Air Industrial Grade8Air Compressed IIPN16Compressed Air Industrial Grade12Cooling IPN10General Cooling 35% Glycol89Cooling Marine LNGPN10Glycol for LNG etc.6-18Cooling Marine LNGPN16Glycol for LNG etc.6-18Cooling Onshore LNGPN10Glycol for LNG etc.6-18Cooling DN10PN10Glycol for LNG etc.6-18Cooling DN10PN10Glycol for LNG etc.6-18Cooling DN10PN10Glycol for LNG etc.12-18Cooling DN10PN10Glycol for LNG etc.6-18Cooling DN10PN10Glycol for LNG etc.6-18Cooling DN10PN10Glycol for LNG etc.12-18	Rating:	Ρ	N16			
Supplier:GenericSurface, Inner:N/AN/AAir Compressed IPN10Compressed Air Industrial Grade8Air Compressed IIPN16Compressed Air Industrial Grade12Air Cooling IPN10General Cooling 35% Glycol8Cooling IIPN10General Cooling 35% Glycol12Cooling Marine LNGPN10Glycol for LNG etc.6Cooling Marine LNGPN16Glycol for LNG cooling etc.12Cooling Onshore LNGPN10Glycol for LNG etc.6Cooling Onshore LNGPN10Glycol for LNG etc.12Cooling Onshore LNGPN10Glycol for LNG etc.12Cooling Onshore LNGPN10Glycol for LNG etc.12Cooling Onshore LNGPN10Glycol for LNG etc.12Cooling Onshore LNGPN10Glycol for LNG cooling etc.12Cooling Onshore LNGPN16Glycol for LNG cooling etc.12	Assembly:	Fit	ted	With "Garn & Salve"		
Surface, Inner:N/AN/AAir Compressed IPN10Compressed Air Industrial Grade83Air Compressed IIPN16Compressed Air Industrial Grade123Air Cooling IPN10General Cooling 35% Glycol89Cooling IIPN10General Cooling 35% Glycol125Cooling Marine LNGPN10Glycol for LNG etc.6-18Cooling Marine LNGPN10Glycol for LNG cooling etc.12-18Cooling Onshore LNGPN10Glycol for LNG etc.6-18Cooling Onshore LNGPN10Glycol for LNG etc.12-18Cooling Onshore LNGPN10Glycol for LNG cooling etc.12-18Cooling Onshore LNGPN10Glycol for LNG cooling etc.12-18Cooling Onshore LNGPN10Glycol for LNG cooling etc.12-18Cooling Onshore LNGPN16Glycol for LNG cooling etc.12-18	PED:	De	claration	Supplier Component Declaration		
Air Compressed IPN10Compressed Air Industrial Grade83Air Compressed IIPN16Compressed Air Industrial Grade123Air Cooling IPN10Compressed Air Industrial Grade123Cooling IPN10General Cooling 35% Glycol85Cooling IIPN16General Cooling 35% Glycol125Cooling Marine LNGPN10Glycol for LNG etc.6-18Cooling Marine LNGPN16Glycol for LNG cooling etc.12-18Cooling Onshore LNGPN10Glycol for LNG etc.6-18Cooling Onshore LNGPN10Glycol for LNG etc.6-18Cooling Onshore LNGPN10Glycol for LNG etc.6-18Cooling Onshore LNGPN10Glycol for LNG etc.6-18Cooling Onshore LNGPN10Glycol for LNG cooling etc.12-18	Supplier:	Ge	neric			
Compressed IAir Compressed IIPN16Compressed Air Industrial Grade123Cooling IPN10General Cooling 35% Glycol85Cooling IIPN16General Cooling 35% Glycol125Cooling Marine LNGPN10Glycol for LNG etc.6-18Cooling Marine LNGPN16Glycol for LNG cooling etc.12-18Cooling Onshore LNGPN10Glycol for LNG etc.6-18Cooling Onshore LNGPN10Glycol for LNG etc.6-18Cooling Onshore LNGPN10Glycol for LNG etc.6-18Cooling Onshore LNGPN16Glycol for LNG etc.6-18Cooling Onshore LNGPN16Glycol for LNG etc.6-18Cooling Onshore LNGPN16Glycol for LNG etc.6-18Cooling Onshore LNGPN16Glycol for LNG cooling etc.12-18	Surface, Inner	: N//	A	N/A		
Compressed IICooling IPN10General Cooling 35% Glycol85Cooling IIPN16General Cooling 35% Glycol125Cooling Marine LNGPN10Glycol for LNG etc.6-18Cooling Marine LNGPN16Glycol for LNG Cooling etc.12-18Cooling Marine LNGPN10Glycol for LNG etc.6-18Cooling Onshore LNGPN10Glycol for LNG etc.6-18Cooling Onshore LNGPN10Glycol for LNG etc.6-18Cooling Onshore LNGPN16Glycol for LNG etc.12-18Cooling Onshore LNGPN16Glycol for LNG Cooling etc.12-18		PN10	Compressed	Air Industrial Grade	8	30
Cooling IIPN16General Cooling 35% Glycol125Cooling Marine LNGPN10Glycol for LNG etc.6-18Cooling Marine LNGPN16Glycol for LNG Cooling etc.12-18Cooling Onshore LNGPN10Glycol for LNG etc.6-18Cooling Onshore LNGPN10Glycol for LNG cooling etc.12-18Cooling Onshore LNGPN10Glycol for LNG etc.6-18Cooling Onshore LNGPN10Glycol for LNG etc.12-18Cooling Onshore LNGPN16Glycol for LNG Cooling etc.12-18		PN16	Compressed	Air Industrial Grade	12	30
Cooling Marine LNGPN10Glycol for LNG etc.6-18Cooling Marine LNGPN16Glycol for LNG Cooling etc.12-18Cooling Onshore LNGPN10Glycol for LNG etc.6-18Cooling Onshore LNGPN10Glycol for LNG etc.6-18Cooling Onshore LNGPN16Glycol for LNG cooling etc.12-18Cooling Onshore LNGPN16Glycol for LNG cooling etc.12-18	Cooling I	PN10	General Coo	ling 35% Glycol	8	50
LNGCooling Marine LNGPN16Glycol for LNG Cooling etc.12-18Cooling Onshore LNGPN10Glycol for LNG etc.6-18CoolingPN16Glycol for LNG Cooling etc.12-18	Cooling II	PN16	General Coo	ling 35% Glycol	12	50
LNGCooling Onshore LNGPN10Glycol for LNG etc.6-18CoolingPN16Glycol for LNG Cooling etc.12-18		PN10	Glycol for LN	IG etc.	6	-180
Onshore LNG   Cooling PN16 Glycol for LNG Cooling etc. 12 -18	-	PN16	Glycol for LN	IG Cooling etc.	12	-180
		PN10	Glycol for LN	IG etc.	6	-180
Onshore LNG	Cooling Onshore LNG	PN16	Glycol for LN	IG Cooling etc.	12	-180

### **P-Engineering:**

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



S	S	tainless	Steel		
S34	Fi	itted Pip	oing Stainless Steel 1.4307		
Rating:	Ρ	N25			
Assembly:	Fit	ted	With "Garn & Salve"		
PED:	De	claration	Supplier Component Declaration		
Supplier:	Ge	neric			
Surface, Inner	: N//	A	N/A		
Cooling I	PN10	General Cool	ling 35% Glycol	8	50
Cooling II	PN16	General Cool	ling 35% Glycol	12	50
Cooling III	PN25	General Cool	ling 35% Glycol	20	50
Cooling Marine LNG	PN25	Glycol for LN	IG Cooling etc.	20	-180



S	S	tainles	s Steel		
S41	S	ewage	Piping 1.4307		
Rating:	N	I/A			
Assembly:	SI	eeve M/F	Male - Female Sleeve Connection		
PED:	PE	ED	Complience	EN13	480
Supplier:	Bl	ucher			
Surface, Inner	: N/	/A	N/A		
Sewage, Black	N/A	Sewage To	pilet etc.	0	20
Sewage, Fatty	N/A	Sewage fro	om Kitchen	0	50
Sewage, Gray	N/A	Sewage ge	eneral	0	20
Sewage, Gray	N/A	Sewage ge	eneral	0	20
Sewage, Oily	N/A	Sewage Pa	arking etc.	0	20
Sewage; Rain Water	N/A	Rain Wate	r, Siphon system	0	0
Sewage; Rain Water	N/A	Rain Wate	r, Siphon system	0	0

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



S	S	tainles	s Steel			
S42	S	ewage	Piping 1.4404			
Rating:	N	I/A				
Assembly:	SI	eeve M/F	Male - Female Sleeve Connection			
PED:	PE	ED	Complience	EN134	480	
Supplier:	Bl	ucher				
Surface, Inner	: N/	/A	N/A			
Sewage, Black	N/A	Sewage To	pilet etc.	0	20	
Sewage, Fatty	N/A	Sewage fro	om Kitchen	0	50	
Sewage, Gray	N/A	Sewage ge	ewage general			
Sewage, Gray	N/A	Sewage ge	eneral	0	20	
Sewage, Oily	N/A	Sewage Pa	arking etc.	0	20	
Sewage; Rain Water	N/A	Rain Wate	r, Gravity	0	0	
Sewage; Rain Water	N/A	Rain Wate	r, Gravity	0	0	

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

S	Stainless Steel				
S43	Fi	Fitted Piping Stainless Steel 1.4404			
Rating:	Ρ	N16			
Assembly:	Fit	ted	With "Garn & Salve"		
PED:	De	claration	Supplier Component Declaration		
Supplier:	Ge	neric			
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 Coo	General Cooling 35% Glycol		50
Cooling II	PN16	General Coo	General Cooling 35% Glycol		50
Cooling III	PN25	General Coo	General Cooling 35% Glycol		50
Cooling Marine LNG	PN10	Glycol for LN	IG etc.	6	-180
Cooling Marine LNG	PN16	Glycol for LN	IG Cooling etc.	12	-180
Cooling Onshore LNG	PN10	Glycol for LN	Glycol for LNG etc.		-180
Cooling Onshore LNG	PN16	Glycol for LN	Glycol for LNG Cooling etc.		-180
Steam Condensate I	N/A	Pressureless	Condensate from Steam	1	100
Steam Condensate II	PN10	Pressurized	Condensate from Steam	8	100

### **P-Engineering:**



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

S	S	tainless	s Steel		
S44	Fi	Fitted Piping Stainless Steel 1.4404			
Rating:	Ρ	N25			
Assembly:	Fit	ted	With "Garn & Salve"		
PED:	De	eclaration	Supplier Component Declaration		
Supplier:	Ge	eneric			
Surface, Inner	: N//	A	N/A		
Air Compressed II	PN16	Compressed	l Air Industrial Grade	12	30
Cooling Marine LNG	PN25	Glycol for LN	NG Cooling etc.	20	-180
Cooling Onshore LNG	PN25	Glycol for LN	NG 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:



S	S	tainless	s Steel		
S73	S	tainless	s Steel; 1.4404		
Rating:	Ρ	N16			
Assembly:	Pre	essing	Press with Pressing Tool / Matrix		
PED:	Su	pplier	PED by Supplier Specification		
Supplier:	Vie	ega			
Surface, Inner	: N/	A	N/A		
Cooling I	PN10	General Coc	ling 35% Glycol	8	50
Cooling II	PN16	General Coc	ling 35% Glycol	12	50
Water Osmosis	PN10	Osmosis Wa	Osmosis Water		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 W	'ater General	8	50

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



S	S	tainless	Steel		
<b>S83</b>	S	tainless	Steel; 1.4404		
Rating:	Ρ	N16			
Assembly:	Pr€	essing	Press with Pressing Tool / Matrix		
PED:	Su	pplier	PED by Supplier Specification		
Supplier:	Blu	ucher Mapres	S		
Surface, Inner	: N/	A	N/A		
Cooling I	PN10	General Coo	ling 35% Glycol	8	50
Cooling II	PN16	General Coo	ling 35% Glycol	12	50
Water Osmosis	PN10	Osmosis Wa	ter	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 W	ater General	8	50

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



S	S	tainless	Steel		
<b>S93</b>	S	tainless	Steel; 1.4404		
Rating:	Ρ	N16			
Assembly:	Pre	essing	Press with Pressing Tool / Matrix		
PED:	Su	pplier	PED by Supplier Specification		
Supplier:	Bro	ben			
Surface, Inner	: N//	A	N/A		
Cooling I	PN10	General Coo	ling 35% Glycol	8	50
Cooling II	PN16	General Coo	General Cooling 35% Glycol		50
Water Osmosis	PN10	Osmosis Wa	Osmosis Water		40
Water Tap Cold	PN10	General Tap	General Tap Water		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 W	ater General	8	50

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



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	44		



г	Titaniun	n	
T02	Titaniun	n Pending	
Rating:	PN10		
Assembly:	Welded	Welded acc. WPS	
PED:	PED	Complience	EN13480
Supplier:	General EN-S	eries	
Surface, Inner:	N/A	N/A	
Water Sea P	N10 Seawater S	Salinity 3.8%	8 50

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



т	Titan	ium	
<b>T03</b>	Titan	ium Pending	
Rating:	<b>PN16</b>		
Assembly:	Welded	Welded acc. WPS	
PED:	PED	Complience	EN13480
Supplier:	General E	N-Series	
Surface, Inner	N/A	N/A	
Water Sea	PN10 Seawa	ater Salinity 3.8%	8 50
Water Sea	PN10 Seawa	ater Salinity 3.8%	8 50

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