

Item / Lp.	Description / Nazwa towaru	Quantity Ilość sztuk
1	Insulating joint 2 (DN50), ANSI 600, P355NHTC1/S355J2H or equivalent, 57 x 6mm, DT: -20 / 80°C.	1
2	Insulating joint 2 (DN50), ANSI 150, P355NHTC1/S355J2H or equivalent, 57 x 6mm, DT: -20 / 80°C.	1
3	Insulating joint 2 (DN50), ANSI 600, L360NE ISO 3183 PSL2 or equivalent, 60,3 x 6mm, DT: -20 / 80°C.	1
4	Insulating joint 4 (DN100), ANSI 600, L360NE ISO 3183 PSL2 or equivalent, 108 x 6mm, DT: -20 / 80°C.	3
5	Insulating joint 4 (DN100), ANSI 150, L360NE ISO 3183 PSL2 or equivalent, 108 x 6mm, DT: -20 / 80°C.	2
6	Insulating joint 4 (DN100), ANSI 150, API 5L GR. B PSL1 or equivalent, 114,3 x 6mm, DT: -20 / 80°C.	1
7	Insulating joint 6 (DN150), ANSI 600, L360NE ISO 3183 PSL2 or equivalent, 159 x 7mm, DT: -20 / 80°C.	3
8	Insulating joint 8 (DN200), ANSI 600, API 5L GR. B PSL1 or equivalent, 219,1 x 8mm, DT: -20 / 80°C.	1
9	Insulating joint 8 (DN200), ANSI 150, API 5L GR. B PSL1 or equivalent, 219,1 x 8mm, DT: -20 / 80°C.	3
10	Insulating joint 12 (DN300), ANSI 150, API 5L GR. B PSL1 or equivalent, 323,9 x 10mm, DT: -20 / 80°C.	4

CHARACTERISTIC / CHARAKTERYSTYKA

Item / Lp.	Nominal pipe size NPS (inch) / DN (mm) Średnica nominalna	Design pressure, barg Ciśnienie projektowe	ANSI rating class / PN Klasa ciśnienia wg ANSI	Min./Max. design temperature DT (°C) Temperatura projektowe	Fluid Medium	Design calculations Obliczenia projektowe	Design factor Współczynnik projektowy	Dielectric strength kV / 1 min. Wytrzymałość dielektryczna	Electrical resistance, MOhm Rezystancji	Bevelled ends Końcówki do wspawania	External coating DFT _o , Powłoka zewnętrzna	Internal coating DFT _i , Powłoka wewnętrzna	Notes Uwagi
1	2 / 50	102	600	-20 / 80	Sweet Natural Gas (non sour)	Calculatio n based on ASME VIII Div. 1, ASME B31.8, WUDT See Note 1 below	0,6	5 (dry air)	10 (dry air)	API 5L	PUR 3mm acc. to EN 10290 + UV protecti on	Epoxy 0,1mm;	Corrosi on allowan ce 0mm, Above Ground
2	2 / 50	19,7	150										
3	2 / 50	102	600										
4	4 / 100	102	600										
5	4 / 100	19,7	150										
6	4 / 100	19,7	150										
7	6 / 150	102	600										
8	8 / 200	102	600										
9	8 / 200	19,7	150										
10	12 / 300	19,7	150										

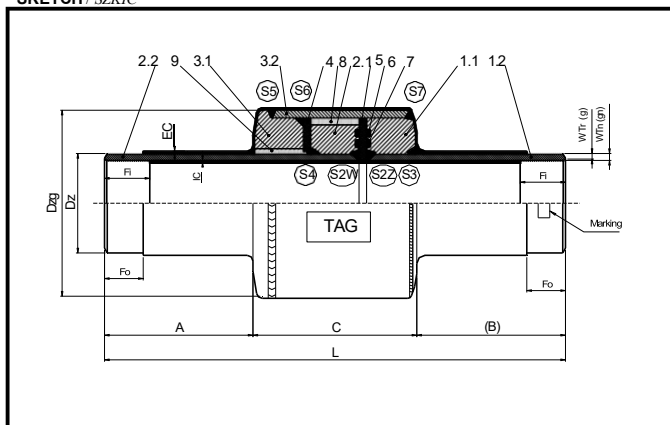
Note 1: Minimum Wall Thickness for pipes calculated acc. to ASME B31.8. Allowable Stress Level for metal parts calculated acc. to Formula: $S=Re \times DF$. (DF – Design Factor, Re – minimum Yield Strength)

REVISION 02

DIMENSIONS / WYMIARY (to be confirmed in case of PO)

Item / Lp.	Dz mm	Wtn mm	WTr (****) mm	L mm	Dzg mm	A mm	C mm	A1 mm	X mm	YA / YB mm	Fo / Fi mm	Weight kg	Notes Uwagi
1	57	6,3	6	350	114,3	140	70	-	-	-	40	7	
2	57	6,3	6	350	114,3	140	70	-	-	-	40	7	
3	60,3	6,3	6	350	114,3	140	70	-	-	-	40	7	
4	108	6,3	6	500	177,8	206	88	-	-	-	50	19	
5	108	6,3	6	500	177,8	206	88	-	-	-	50	19	
6	114,3	6,02	6	500	177,8	206	88	-	-	-	50	19	
7	159	8	7	600	273	235	130	-	-	-	50	58	
8	219,1	8,18	8	600	323,9	217	166	-	-	-	60	84	
9	219,1	8,18	8	600	323,9	250	100	-	-	-	60	62	
10	323,9	10,31	10	800	457	329	142	-	-	-	60	155	

SKETCH / SZKIC



INSPECTIONS & TESTING / BADANIA I TESTY

STANDARD (Included):

- visual and dimensional check (*)
- hydrostatic test: 1,5 x DP hold for 30 minutes and repeated after 20 minutes.
- pneumatic test: 6 bar hold for 10 min.
- dielectric strength test: 5000 V AC x 1 min. (50 Hz) (*) (dry)
- electrical resistance test: $\geq 10 \text{ M}\Omega @ 1000 \text{ V DC}$ (*) (dry)
- holiday detection of external coating: $\geq 25 \text{ kV DC}$;
- NDT method VT PN-EN ISO 17637 (Welds only).
- NDT method UT PN-EN ISO 17640 and internal procedure (welds only) (EXCEPT 2" & 4")
- NDT method MP EN ISO 17638 (welds only)

Certification: EN-10204 Type 3.1.

(*) the test is performed prior to and after hydrostatic test
testy przeprowadzone przed i po próbie hydrostatycznej

EXTRAS (Not included) ():**

(**) EXTRAS available at an additional cost - za dodatkową opłatą

Materials / Materiały

Item / Lp.	Pipes Rury 1.2 ; 2.2	Steel rings Pierścienie 1.1 ; 2.1 ; 3.1	Head's pipe Rura głowicy 3.2	Resist. insul. ring Pierśc. oporowy 4	Seal insul. ring Pierśc. uszczeln. 5	O-ring 6	O-ring 7	Filling Wypełnienie 8	Notes Uwagi 9
1	P355NH-TC1 / S355J2H or equivalent	S355J2+N EN-10025-2	----	Glass-epoxid G10 / G11 acc. to NEMA	Glass-epoxid G10 / G11 acc. to NEMA	FKM / FPM / VITON or NBR	FKM / FPM / VITON or NBR	Poliurethane Resin	
2	P355NH-TC1 / S355J2H or equivalent	S355J2+N EN-10025-2	----	Glass-epoxid G10 / G11 acc. to NEMA	Glass-epoxid G10 / G11 acc. to NEMA	FKM / FPM / VITON or NBR	FKM / FPM / VITON or NBR	Poliurethane Resin	
3	L360NE ISO3183 PSL2 or equivalent	S355J2+N EN-10025-2	----	Glass-epoxid G10 / G11 acc. to NEMA	Glass-epoxid G10 / G11 acc. to NEMA	FKM / FPM / VITON or NBR	FKM / FPM / VITON or NBR	Poliurethane Resin	
4	L360NE ISO3183 PSL2 or equivalent	S355J2+N EN-10025-2	----	Glass-epoxid G10 / G11 acc. to NEMA	Glass-epoxid G10 / G11 acc. to NEMA	FKM / FPM / VITON or NBR	FKM / FPM / VITON or NBR	Poliurethane Resin	
5	L360NE ISO3183 PSL2 or equivalent	S355J2+N EN-10025-2	----	Glass-epoxid G10 / G11 acc. to NEMA	Glass-epoxid G10 / G11 acc. to NEMA	FKM / FPM / VITON or NBR	FKM / FPM / VITON or NBR	Poliurethane Resin	
6	API 5L GRADE B PSL1 or equivalent	S355J2+N EN-10025-2	S355J2H EN-10210	Glass-epoxid G10 / G11 acc. to NEMA	Glass-epoxid G10 / G11 acc. to NEMA	FKM / FPM / VITON or NBR	FKM / FPM / VITON or NBR	Poliurethane Resin	
7	L360NE ISO3183 PSL2 or equivalent	S355J2+N EN-10025-2	S355J2H EN-10210	Glass-epoxid G10 / G11 acc. to NEMA	Glass-epoxid G10 / G11 acc. to NEMA	FKM / FPM / VITON or NBR	FKM / FPM / VITON or NBR	Poliurethane Resin	
8	API 5L GRADE B PSL1 or equivalent	S355J2+N EN-10025-2	S355J2H EN-10210	Glass-epoxid G10 / G11 acc. to NEMA	Glass-epoxid G10 / G11 acc. to NEMA	FKM / FPM / VITON or NBR	FKM / FPM / VITON or NBR	Poliurethane Resin	
9	API 5L GRADE B PSL1 or equivalent	S355J2+N EN-10025-2	S355J2H EN-10210	Glass-epoxid G10 / G11 acc. to NEMA	Glass-epoxid G10 / G11 acc. to NEMA	FKM / FPM / VITON or NBR	FKM / FPM / VITON or NBR	Poliurethane Resin	
10	API 5L GRADE B PSL1 or equivalent	S355J2+N EN-10025-2	S355J2H EN-10210	Glass-epoxid G10 / G11 acc. to NEMA	Glass-epoxid G10 / G11 acc. to NEMA	FKM / FPM / VITON or NBR	FKM / FPM / VITON or NBR	Poliurethane Resin	

(***)This quotation is valid only for the lot of all items quoted and cannot be partitioned. Particular items are subject to re-quote.

Marking – Manufacturer Standard. Radiatym will supply all Reports and Documentation from Tests & Inspection included within the offer.

NDT, tests & inspections as per offer. All technical parameters and conditions as per offer.

(****) WTrn bevelled down to WTr on customers request.

Spark Gap not included. ATEX not included.