



Inspection and Technical Services
Municipal Relations

508 - 401 York Avenue
Winnipeg Manitoba R3C 0P8
T (204) 945-3373
F (204) 948-2309

April 15th, 2024

Round Engineering Inc.
10 Segwun Road
Waterdown, Ontario
Canada
L8B 0K6

Attn: Scott Islip

REGISTRATION OF VALVES AND FITTINGS

Manufacturer: AQUATECHNIK GROUP S.P.A

The design for the following Fitting has been examined and accepted for registration in the Province of Manitoba as follows.

DRAWING / CATALOGUE	CRN	FILE
SCOPE OF CRN REGISTRATION Dated: March 25, 2024	0H7174.4	41269

An invoice covering survey and registration fees is enclosed.

NOTES:

- This registration expires: April 15th, 2034.*

This registration is valid until the indicated expiry date only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency until that date. Should the approval of the quality management system lapse before the expiry date indicated above, this registration shall become void.

The registration of this design does not relieve the manufacturer, the owner or his agent of the responsibility for the design or construction of a fitting in accordance with the applicable Acts, Codes and Standards. Inspection and Technical Services assumes no responsibility by registering designs, examining plans and/or inspecting equipment or facility.

Regards,

Mohamed Elsayed, P.Eng, PMP, LSSGB
Senior Mechanical Engineer
Labour and Immigration
508 - 401 York Avenue
Winnipeg, Manitoba, R3C 0P8
Cell: (204) 794-3534
Email: Mohamed.Elsayed@gov.mb.ca
Website: <https://www.gov.mb.ca/labour/its/index.html>



MANITOBA

DEPARTMENT OF LABOUR
AND IMMIGRATION
500 - 401 York Avenue
Winnipeg, Manitoba R3C 0P8



STATUTORY DECLARATION REGISTRATION OF FITTINGS

(a) Design Qualification

I, Marco Petena

(See Note 2)



Managing Director

(Position e.g.: president, plant manager, chief eng.)

of Aquatechnik Group s.p.a.

(Name of company)

Via Bonsignora, 53 - 21052 Busto Arsizio (Va)

located at Via P.F. Calvi, 40-42 - 20020 Magnago (MI)

(Plant Address)

do solemnly declare that the fittings listed hereunder, which are subject to the Boilers & Pressure Vessels Act,

comply with all the requirements of the ANSI/ASME codes as to their dimensions. ASTM F2389, ASME B31.3

or

are not covered by the provisions of the ANSI/ASME codes, and are therefore constructed to comply with _____ code or standard, and are designed to the best current engineering practice, as shown by the supporting test data.

(b) Quality Control of Manufacture

I further declare the manufacture of these fittings is controlled by a quality control program which complies with the requirements of ISO 9001:2015, and has been verified by the following authority or authorized agency CISQ

The fittings covered by this declaration, for which I seek registration, are CATEGORY A

In support of the application, the following information, calculations and/or test data are attached:

SCOPE OF CRN, REPORTS

Declared before me at _____ in the province/state of _____ the _____

day of AD 20

A (commissioner for oaths)

Aquatechnik s.p.a.
Sede: Via P.F. Calvi, 40-42 - 20020 Magnago (MI)
Tel: 0331-297914 - Fax: 0331-306923
Cod. Fisc. e Part. IVA: 03089000127
Signature of Declarant

(For Official Use Only)

The application is accepted for registration in Category H in accordance with the Boilers and Pressure Vessels Act and CSA Standard B51.

This registration must be revalidated after ten (10) years from the date of acceptance.

Revalidation Required By: April 15, 2034

Registered Number CRN 0H7174.4

For the Chief Inspector

Date: April 15, 2034

Notes:

- (1) This form shall be completed and signed by the president or highest official in the manufacturing plant where the fitting is produced.
- (2) Two completed copies of Statutory Declaration form together with two copies of Catalogs, drawings or Bulletins illustrating above fittings shall be submitted.
- (3) All fittings are required to be registered in the name of the Manufacturer

DICHIARAZIONE STATUTARIA

REGISTRAZIONE DEGLI ALLESTIMENTI

AQUATECHNIK

dichiara solennemente che i raccordi qui elencati, soggetti al Boilers & Pressure Vessels Act, sono conformi a tutti i requisiti dei codici ANSI/ASME per quanto riguarda le dimensioni. ASTM F2389, ASME B31 .3

o

non sono coperti dalle disposizioni dei codici ANSI/ASME, e sono quindi costruiti in conformità a codice o standard, e sono progettati secondo la migliore pratica ingegneristica corrente, come dimostrato dai dati di prova di supporto.

(b) Controllo di qualità della fabbricazione

Dichiaro inoltre che la produzione di questi raccordi è controllata da un programma di controllo della qualità conforme ai requisiti della norma iso 9001:2015 ed è stata sottoposta a un controllo di qualità ed è stato verificato dalle seguenti autorità o agenzie autorizzate CISQ

I raccordi oggetto della presente dichiarazione, per i quali chiedo la registrazione, sono di CATEGORIA A.

A sostegno della domanda, si allegano le seguenti informazioni, calcoli e/o dati di prova:

PORTATA DEL CRN, RELAZIONI



Dichiarato davanti a me

nella provincia/Stato del

giorno del

AD 20

A (commissario per il giuramento)

(Solo per uso ufficiale)

La domanda è accettata per la registrazione nella categoria _____ in conformità alla legge sulle caldaie e i recipienti a pressione e allo standard CSA B51.

Questa registrazione deve essere riconvalidata dopo dieci (10) anni dalla data di accettazione.

Numero di registrazione CRN

Per l'ispettore capo

Data

Note:

(1) Questo modulo deve essere compilato e firmato dal presidente o dal più alto funzionario dello stabilimento di produzione in cui viene prodotto l'accessorio.

(2) Devono essere presentate due copie compilate del modulo di dichiarazione statutaria insieme a due copie di cataloghi, documenti o bollettini che illustrino i raccordi in questione.

(3) Tutti i raccordi devono essere registrati a nome del fabbricante.



ICC-ES PMG Product Certificate



PMG-1475

Effective Date: June 2022

This listing is subject to re-examination in one year.



www.icc-es-pmg.org | (800) 423-6587 | (562) 699-0543

A Subsidiary of the International Code Council®

CSI: Division: 22 00 00 — PLUMBING
Section: 22 11 00—Facility Water Distribution
Section: 22 11 16—Domestic Water Piping

Division: 23 00 00 — HVAC
Section: 23 21 13—Hydronic Piping

Product certification system:

The ICC-ES product certification system includes testing samples taken from the market or supplier's stock, or a combination of both, to verify compliance with applicable codes and standards. The system also involves factory inspections, and assessment and surveillance of the supplier's quality system.

Products: Aquatechnik Polypropylene (PP-R) Piping System

Listee: Aquatechnik Group s.p.a
Via P.F. Calvi 40
Magnago (MI) 20020 Italy
www.aquatechnik.it
www.aquatechnikNA.com

Compliance with the following codes:

- 2021, 2018, 2015, 2012 and 2009 *International Plumbing Code*® (IPC)
- 2021, 2018, 2015, 2012 and 2009 *International Residential Code*® (IRC)
- 2021, 2018, 2015, 2012 and 2009 *International Mechanical Code*® (IMC)
- 2021, 2018, 2015, 2012 and 2009 *Uniform Plumbing Code*® (UPC)*
- 2021, 2018, 2015, 2012 and 2009 *Uniform Mechanical Code*® (UMC)*
- 2019, 2016, 2013 and 2010 *California Plumbing Code* (CPC)
- 2019, 2016, 2013 and 2010 *California Mechanical Code* (CMC)
- 2020 and 2017 *City of Los Angeles Plumbing Code*
- 2020 and 2017 *City of Los Angeles Mechanical Code*
- 2017 and 2007 *Code of Massachusetts Regulation 248 CMR 10.00: Uniform State Plumbing Code*
- 2017 *Massachusetts State Building Code 780 CMR Ninth Edition: Chapter 28*
- 2017 and 2011 *Uniform Illustrated Plumbing Code - India*™ (UPC-I)*
- 2020, 2015 and 2010 *National Plumbing Code of Canada*® (NPC)**

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** National Plumbing Code of Canada is a copyrighted publication of National Research Council Canada

Compliance with the following standards:

- ASTM F 2389-2021, *Pressure-rated Polypropylene (PP) Piping Systems*
- CSA B137.11-2020, *Polypropylene (PP-R) Pipe and Fittings for Pressure Applications*
- NSF/ANSI 14-2021, *Plastic Piping Systems Components and Related Materials*

Listings are not to be construed as representing aesthetics or any other attributes not specifically addressed, nor are they to be construed as an endorsement of the subject of the listing or a recommendation for its use. There is no warranty by ICC Evaluation Service, LLC, express or implied, as to any finding or other matter in this listing, or as to any product covered by the listing.





SCOPE OF CRN REGISTRATION

Description	Material Specification	Design Code	Size Range X SDR Rating	MAWP AT 73°F	MAWP AT 100°F	MAWP AT 180°F	MDT	Design Report No.
Fusio-Technik Polypropylene PP-R Fittings	Polypropylene PP-R	ASME B31.3, ASTM F2389	20mm thru 250mm SDR 7.4	241 psig	156 psig	56 psig	0°F	R-1373 Rev. 0
			20mm thru 355mm SDR 9	191 psig	124 psig	45 psig		
			20mm thru 400mm SDR 11	152 psig	98 psig	35 psig		
			32mm thru 400mm SDR 17.6	91 psig	59 psig	21 psig		

Manitoba Inspection & Technical Services

REGISTERED

CRN : 0H7174.4

Signature: _____

Date: 15/Apr/2024

See attached ICC Evaluation Service Document PMG-1475 Pages 4-33 for a listing of the Part Numbers covered under this CRN that are in compliance with ASTM F2389

Notes:

- 1) MAWP = Maximum Allowable Working Pressure, MDT = Minimum Design Temperature.
- 2) In accordance with CSA B51 Figure 1(a) Category H fittings do not require a CRN when they contain liquids not more hazardous than water and operate at a temperature of 150°F or less and at a maximum allowable working pressure of 250 psig or less.
- 3) Environmental and/or service conditions may effect the short term and long term strength of Polypropylene. Suitability for service of Polypropylene is the responsibility of the user and/or piping designer.
- 4) Pressure ratings are based on a design/service factor of approximately 0.5 applied to the Hydrostatic Design Basis (HDB). When used on services other than water the end user and/or piping designer is responsible to determine if a design/service factor less than 0.5 is more appropriate due to the possible chemical effects of the service. Allowable services of use are specified in ASTM F2389 para. 1. Scope.
- 5) Precautions should be taken to safeguard the pipe against excessive shock, vibration, pulsation and mechanical abuse.
- 6) SDR = DR = (Average Outside Diameter) / (Minimum Wall Thickness)
- 7) Personnel or companies installing these products shall follow the applicable jurisdiction certification requirements in the Province/Territory that the product is installed.



SCOPE OF CRN REGISTRATION

Notes Continued:

8) In accordance with ASME B31.3 para A328.1 each employer is responsible for the bonding done by personnel of his/her organization and, except as provided in paras. A328.2.2 and A328.2.3, shall conduct the required performance qualification tests to qualify bonding procedure specifications (BPS) and bonders or bonding operators.

9) In accordance with ASME B31.3 qualification of the BPS to be used, and of the performance of bonders and bonding operators, is required. To qualify a BPS, all tests and examinations specified therein and in para. A328.2.5 shall be completed successfully.

Description	Part Number (COD)	Dimensions
FUSIO-TECHNIK PIPE, PP-RCT, SDR 11 to convey cold potable and non-potable fluids, white color with blue strips, rods length 19 ft	61208U	SDR 11- 1/2"-0,07"
	61210U	SDR 11 - 3/4"-0,09"
	61212U	SDR 11 - 1"-0,11"
	61214U	SDR 11- 1 1/4"-0.15"
	61216U	SDR 11 - 1 1/2"-0,18"
	61218U	SDR 11 - 2"-0,23"
	61220U	SDR 11 - 2 1/2"-0,27"
	61222U	SDR 11 - 3"-0,32"
	61224U	SDR 11 - 3 1/2"-0,39"
	61226U	SDR 11 - 4"-0,45"
	61228U	SDR 11 - 6"-0,57"
	61230U	SDR 11 - 8"-0,72"
faser FIBER-T PIPE, SDR 7,4, PP-RCT/PP-R, multi-layer pipe to convey hot and cold potable and not-potable fluids with fibre-reinforced intermediate layer and inner layer in PP-RCT WOR (White Oxidation Resistance), inner layer white color, external layer white color with red strips, rods length 19 ft	61358U	SDR 7,4 - 1/2"-0,11"
	61360U	SDR 7,4 - 3/4" -0,14"
	61362U	SDR 7,4 - 1"-0,17"
	61364U	SDR 7,4 - 1 1/4"-0,22"
	61366U	SDR 7,4 - 1 1/2"-0,27"
	61368U	SDR 7,4 - 2"-0,34"
	61370U	SDR 7,4 - 2 1/2"-0,41"
	61372U	SDR 7,4 - 3"-0,48"
	61374U	SDR 7,4 - 3 1/2"-0,59"
	61376U	SDR 7,4 - 4"-0,67"
	61378U	SDR 7,4 - 6"-0,81"
	61380U	SDR 7,4 - 8"-1,06"
	61382U	SDR 7,4 - 10"-1,33"
61384U	SDR 7,4 - 12"-1,68"	

faser FIBER-COND PIPE, SDR 9, PP-RCT/PP-RF/PP-R, multi-layer pipe to convey hot and cold potable and not-potable fluids with fibre-reinforced intermediate layer and inner layer in PP-RCT WOR (White Oxidation Resistance), inner layer white color, external layer white color with red strips, rods length 19 ft	61362UX	SDR 9 - 1"-0,14"
	61364UX	SDR 9 - 1 1/4"-0,18"
	61366UX	SDR 9 - 1 1/2"-0,22"
	61368UX	SDR 9 - 2"-0,28"
	61370UX	SDR 9 - 2 1/2"-0,33"
	61372UX	SDR 9 - 3"-0,39"
	61374UX	SDR 9 - 3 1/2"-0,48"
	61376UX	SDR 9 - 4"-0,55"
faser FIBER-COND PIPE, SDR 11, PP-RCT/PP-RF/PP-R, multi-layer pipe to convey cold potable and not-potable fluids, for technical installations, heating, chilled water with fibre-reinforced intermediate layer and inner layer in PP-RCT WOR (White Oxidation Resistance), inner layer white color, external layer white color with grey strips, rods length 19 ft	61462U-058	SDR 11 - 1"-0,11"
	61464U-058	SDR 11 - 1 1/4"-0,15"
	61466U-058	SDR 11 - 1 1/2"-0,18"
	61468U-058	SDR 11 - 2"-0,23"
	61470U-058	SDR 11 - 2 1/2"-0,27"
	61472U-058	SDR 11 - 3"-0,32"
	61474U-058	SDR 11 - 3 1/2"-0,39"
	61476U-058	SDR 11 - 4"-0,45"
	61478U	SDR 11 - 6"-0,57"
	61480U	SDR 11 - 8"-0,72"
	61482U	SDR 11 - 10"-0,89"
	61484U	SDR 11 - 12"-1,12"
61486U	SDR 11 - 14"-1,27"	
61488U	SDR 11 - 16"-1,43"	
faser FIBER-LIGHT PIPE, SDR 17,6, PP-RCT/PP-RF/PP-R, multi-layer pipe to convey cold potable and not-potable fluids, for technical installations, heating, chilled water with fibre-reinforced intermediate layer and inner layer in PP-RCT WOR	61468UZ	SDR 17,6 - 2"-0,14"
	61470UZ	SDR 17,6 - 2 1/2"-0,17"

(White Oxidation Resistance), inner layer white color, external layer white color with green strips, rods length 19 ft, butt-welding from Ø 6"	61472UZ	SDR 17,6 - 3"-0,20"
	61474UZ	SDR 17,6 - 3 1/2"-0,25"
	61476UZ	SDR 17,6 - 4"-0,28"
	61478UZ	SDR 17,6 - 6"-0,35"
	61480UZ	SDR 17,6 - 8"-0,44"
	61482UZ	SDR 17,6 - 10"-0,56"
	61484UZ	SDR 17,6 - 12"-0,70"
	61486UZ	SDR 17,6 - 14"-0,79"
	61488UZ	SDR 17,6 - 16"-0,89"
	61490UZ	SDR 17,6 - 18"-1,00"
	61492UZ	SDR 17,6 - 20"-1,11"
	61494UZ	SDR 17,6 - 22"-1,25"
	61496UZ	SDR 17,6 - 24"-1,41"
RAIN-WATER PIPE, SDR 11, PP-R, for recycling, reclaimed and rain-water, violet color, rods length 13 ft	61608	SDR 11 - 1/2"-0,07"
	61610	SDR 11 - 3/4"-0,09"
	61612	SDR 11 - 1"-0,11"
	61614	SDR 11 - 1 1/4"-0,15"
	61616	SDR 11 - 1 1/2"-0,18"
	61618	SDR 11 - 2"-0,23"
	61620	SDR 11 - 2 1/2"-0,27"
	61622	SDR 11 - 3"-0,32"
	61624	SDR 11 - 3 1/2"-0,39"
	61626	SDR 11 - 4"-0,45"
61628	SDR 11 - 6"-0,57"	
PIPE COUPLING, SDR 5, socket-welding	62008U	SDR 5 - 1/2"
	62010U	SDR 5 - 3/4"
	62012U	SDR 5 - 1"
	62014U	SDR 5 - 1 1/4"
	62016U	SDR 5 - 1 1/2"

	62018U	SDR 5 - 2"
	62020U	SDR 5 - 2 1/2"
	62022U	SDR 5 - 3"
	62024U	SDR 5 - 3 1/2"
	62026U	SDR 5 - 4"
REDUCED PIPE COUPLING, SDR 5, socket-welding	62312U	SDR 5 - 3/4"-1/2"
	62316U	SDR 5 - 1"-3/4"
REDUCER, SDR 5,M/F, socket-welding	62112U	SDR 5 - M3/4"-F1/2"
	62114U	SDR 5 - M1"-F1/2"
	62116U	SDR 5 - M1"-F3/4"
	62118U	SDR 5 - M1 1/4"-F1/2"
	62120U	SDR 5 - M1 1/4"-F3/4"
	62122U	SDR 5 - M1 1/4"-F1"
	62124U	SDR 5 - M1 1/2"-F1/2"
	62126U	SDR 5 - M1 1/2"-F3/4"
	62128U	SDR 5 - M1 1/2"-F1"
	62130U	SDR 5 - M1 1/2"-F1 1/4"
	62132U	SDR 5 - M2"-F3/4"
	62134U	SDR 5 - M2"-F1"
	62136U	SDR 5 - M2"-F1 1/4"
	62138U	SDR 5 - M2"-F1 1/2"
	62139U	SDR 5 - M2 1/2"-F1 1/4"
	62140U	SDR 5 - M2 1/2"-F1 1/2"
	62142U	SDR 5 - M2 1/2"-F2"
	62144U	SDR 5 - M3"-F1 1/2"
	62152U	SDR 5 - M3"-F2"
	62153U	SDR 5 - M3"-F2 1/2"
	62155U	SDR 5 - M3 1/2"-F2"
	62157U	SDR 5 - M3 1/2"-F2 1/2"
	62159U	SDR 5 - M3 1/2"-F3"
	62168U	SDR 5 -M 4"-F2 1/2"
62170U	SDR 5 - M4"-F3"	
62172U	SDR 5 -M4"-F3 1/2"	
REDUCER, SDR 7,4, butt-welding, short shank	62174UK	SDR 7,4 - 3 1/2"
	62176UK	SDR 7,4 - 6"-4"
	62181UK	SDR 7,4 - 8"-4"
	62182UK	SDR 7,4 - 8"-6"
	62184UK	SDR 7,4 - 10"-6"
	62186UK	SDR 7,4 - 10"-8"
	62199UK	SDR 7,4 - 12"-8"
	62200UK	SDR 7,4 - 12"-10"
REDUCER, SDR 11, butt-welding, long shank	62173U	SDR 11 - 6"-3"
	62174U	SDR 11 - 6"-3 1/2"
	62176U	SDR 11 - 6"-4"

	62180U	SDR 11 - 8"-4"
	62182U	SDR 11 - 8"-6"
	62184U	SDR 11 - 10"-6"
	62186U	SDR 11 - 10"-8"
	62200U	SDR 11 - 12"-10"
REDUCER, SDR 11, butt-welding, short shank	62214U	SDR 11 - 14"-10"
	62216U	SDR 11 - 14"-12"
	62242U	SDR 11 - 16"-12"
	62244U	SDR 11 - 16"-14"
REDUCER, SDR 17,6, butt-welding, long shank	62173UZ	SDR 17,6 - 6"-3"
	62174UZ	SDR 17,6 - 6"-3 1/2"
	62176UZ	SDR 17,6 - 6"-4"
	62180UZ	SDR 17,6 - 8"-4"
	62182UZ	SDR 17,6 - 8"-6"
	62184UZ	SDR 17,6 - 10"-6"
	62186UZ	SDR 17,6 - 10"-8"
	62200UZ	SDR 17,6 - 12"-10"
REDUCER, SDR 17,6, butt-welding, short shank	62214UZ	SDR 17,6 - 14"-10"
	62216UZ	SDR 17,6 - 14"-12"
	62240UZ	SDR 17,6 - 16"-10"
	62242UZ	SDR 17,6 - 16"-12"
	62244UZ	SDR 17,6 - 16"-14"
	62248UZ	SDR 17,6 - 18"-14"
	62250UZ	SDR 17,6 - 18"-16"
	62254UZ	SDR 17,6 - 20"-16"
	62256UZ	SDR 17,6 - 20"-18"
	62260UZ	SDR 17,6 - 22"-18"
	62262UZ	SDR 17,6 - 22"-20"
	62266UZ	SDR 17,6 - 24"-20"
	62268UZ	SDR 17,6 - 24"-22"
ELBOW 90°, SDR 5, socket-welding	63108U	SDR 5 - 1/2"
	63110U	SDR 5 - 3/4"
	63112U	SDR 5 - 1"
	63114U	SDR 5 - 1 1/4"
	63116U	SDR 5 - 1 1/2"
	63118U	SDR 5 - 2"
	63120U	SDR 5 - 2 1/2"
	63122U	SDR 5 - 3"
	63124U	SDR 5 - 3 1/2"
	63126U	SDR 5 - 4"

ELBOW 90°, SDR 7,4, butt-welding	63128UK	SDR 7,4 - 6" fiber T
	63130UK	SDR 7,4 - 8" fiber T
ELBOW 90°, SDR 7,4, butt-welding, segmented fitting of faser FIBER-T	63128UCK	SDR 7,4 - 6" fiber T
	63130UCK	SDR 7,4 - 8" fiber T
	63132UCK	SDR 7,4 - 10" fiber T
	63134UCK	SDR 7,4 - 12" fiber T
ELBOW 90°, SDR 11, butt-welding	63128U	SDR 11 - 6"
	63130U	SDR 11 - 8" fiber cond
	63132U	SDR 11 - 10" fiber cond
	63134U	SDR 11 - 12" fiber cond
ELBOW 90°, SDR 11, butt-welding, segmented fitting of faser FIBER-COND	63136UC	SDR 11 - 14" fiber cond
	63138UC	SDR 11 - 16" fiber cond
ELBOW 90°, SDR 17,6, butt-welding	63128UZ	SDR 17,6 - 6" fiber light
	63130UZ	SDR 17,6 - 8" fiber light
	63132UZ	SDR 17,6 - 10" fiber light
	63134UZ	SDR 17,6 - 12" fiber light
ELBOW 90°, SDR 17,6, butt-welding, <u>segmented</u> fitting of faser FIBER-LIGHT	63136UCZ	SDR 17,6 - 14" fiber light
	63138UCZ	SDR 17,6 - 16" fiber light
	63140UCZ	SDR 17,6 - 18" fiber light
	63142UCZ	SDR 17,6 - 20" fiber light
	63144UCZ	SDR 17,6 - 22" fiber light
	63146UCZ	SDR 17,6 - 24" fiber light
ELBOW M/F 90°, SDR 7,4, socket-welding	63308U	SDR 5 - 1/2"
	63310U	SDR 5 - 3/4"
	63312U	SDR 5 - 1"
	63314U	SDR 5 - 1 1/4"
ELBOW 45°, SDR 5, socket-welding	63508U	SDR 5- 1/2"
	63510U	SDR 5 - 3/4"
	63512U	SDR 5 - 1"
	63514U	SDR 5 - 1 1/4"
	63516U	SDR 5 - 1 1/2"

	63518U	SDR 5 - 2"
	63520U	SDR 5 - 2 1/2"
	63522U	SDR 5 - 3"
	63524U	SDR 5 - 3 1/2"
	63526U	SDR 5 - 4"
ELBOW 45°, SDR 7,4, butt-welding	63528UK	SDR 7,4 - 6"
	63530UK	SDR 7,4 - 8"
ELBOW 45°, SDR 7,4, butt-welding, segmented fitting of faser FIBER-T	63528UCK	SDR 7,4 - 6" fiber T
	63530UCK	SDR 7,4 - 8" fiber T
	63532UCK	SDR 7,4 - 10" fiber T
	63534UCK	SDR 7,4 - 12" fiber T
ELBOW 45°, SDR 11, butt-welding	63528U	SDR 11 - 6" fiber cond
	63530U	SDR 11 - 8" fiber cond
	63532U	SDR 11 - 10" fiber cond
	63534U	SDR 11 - 12" fiber cond
ELBOW 45°, SDR 11, butt-welding, segmented fitting of faser FIBER-COND	63536UC	SDR 11 - 14" fiber cond
	63538UC	SDR 11 - 16" fiber cond
ELBOW 45°, SDR 17,6, butt-welding	63528UZ	SDR 17,6 - 6" fiber light
	63530UZ	SDR 17,6 - 8" fiber light
	63532UZ	SDR 17,6 - 10" fiber light
	63534UZ	SDR 17,6 - 12" fiber light
ELBOW 45°, SDR 17,6, butt-welding, segmented fitting of faser FIBER-LIGHT	63536UCZ	SDR 17,6 - 14" fiber light
	63538UCZ	SDR 17,6 - 16" fiber light
	63540UCZ	SDR 17,6 - 18" fiber light
	63542UCZ	SDR 17,6 - 20" fiber light
	63544UCZ	SDR 17,6 - 22" fiber light
	63546UCZ	SDR 17,6 - 24" fiber light
ELBOW M/F 45°, SDR 5, socket-welding	63708U	SDR 5 - 1/2"

	63710U	SDR 5 - 3/4"
	63712U	SDR 5 - 1"
TEE, SDR 5, socket-welding	64108U	SDR 5 - 1/2"
	64110U	SDR 5 - 3/4"
	64112U	SDR 5 - 1"
	64114U	SDR 5 - 1 1/4"
	64116U	SDR 5 - 1 1/2"
	64118U	SDR 5 - 2"
	64120U	SDR 5 - 2 1/2"
	64122U	SDR 5 - 3"
	64124U	SDR 5 - 3 1/2"
	64126U	SDR 5 - 4"
TEE, SDR 7,4, butt-welding	64128UK	SDR 7,4- 6"
	64130UK	SDR 7,4 - 8"
TEE, SDR 7,4, butt-welding, segmented fitting of faser FIBER-T	64128UCK	SDR 7,4- 6" fiber T
	64130UCK	SDR 7,4 - 8" fiber T
	64132UCK	SDR 7,4 - 10" fiber T
	64134UCK	SDR 7,4 - 12" fiber T
TEE, SDR 11, butt-welding	64128U	SDR 11- 6"
	64130U	SDR 11 - 8"
	64132U	SDR 11 - 10"
	64134U	SDR 11 - 12"
TEE, SDR 11, butt-welding, segmented fitting of faser FIBER-COND	64136UC	SDR 11 - 14" segmented fiber cond
	64138UC	SDR 11 - 16" fiber cond
TEE, SDR 17,6, butt-welding	64128UZ	SDR 17,6 - 6" fiber light
	64130UZ	SDR 17,6 - 8" fiber light
	64132UZ	SDR 17,6 - 10" fiber light
	64134UZ	SDR 17,6 - 12" fiber light

TEE, SDR 17,6, butt-welding, segmented fitting of faser FIBER-LIGHT	64136UCZ	SDR 17,6 - 14" segmented fiber light
	64138UCZ	SDR 17,6 - 16" fiber light
	64140UCZ	SDR 17,6 - 18" segmented fiber light
	64142UCZ	SDR 17,6 - 20" fiber light
	64144UCZ	SDR 17,6 - 22" segmented fiber light
	64146UCZ	SDR 17,6 - 24" segmented fiber light
REDUCED TEE, SDR 5, socket-welding	64218U	SDR 5 -1/2" 3/4"-1/2"
	64220U	SDR 5 - 3/4"-1/2"-1/2"
	64222U	SDR 5 - 3/4"-1/2"-3/4"
	64232U	SDR 5 - 1"-3/4"-3/4"
	64234U	SDR 5 -1"-1/2"-1"
	64240U	SDR 5 - 1"-3/4"-1"
	64242U	SDR 5 - 1 1/4"-1/2"-1 1/4"
	64244U	SDR 5 - 1 1/4"-3/4"-1 1/4"
	64245U	SDR 5 - 1 1/4"-1"-1"
	64246U	SDR 5 - 1 1/4"-1"-1 1/4"
	64247U	SDR 5 - 1 1/2"-1/2"-1 1/2"
	64248U	SDR 5 - 1 1/2"-3/4"-1 1/2"
	64250U	SDR 5 - 1 1/2"-1"-1 1/2"
	64251U	SDR 5 - 1 1/2"-1 1/4"-1 1/2"
	64252U	SDR 5 - 2"-1/2"-2"
	64254U	SDR 5 - 2"-3/4"-2"
	64256U	SDR 5 - 2"-1"-2"
	64258U	SDR 5 - 2"-1 1/4"-2"
	64260U	SDR 5 - 2"-1 1/2"-2"
	64261U	SDR 5 - 2 1/2"-1/2"-2 1/2"
	64262U	SDR 5 - 2 1/2"-3/4"-2 1/2"
	64264U	SDR 5 - 2 1/2"-1"-2 1/2"
	64266U	SDR 5 - 2 1/2"-1 1/4"-2 1/2"
	64268U	SDR 5 - 2 1/2"-1 1/2"-2 1/2"
	64270U	SDR 5 - 2 1/2"-2"-2 1/2"
	64280U	SDR 5 - 3"-1 1/2"-3"
	64282U	SDR 5 - 3"-2"-3"
	64284U	SDR 5 - 3"-2 1/2"-3"
64286U	SDR 5 - 3 1/2"-2"-3 1/2"	
64288U	SDR 5 - 3 1/2"-2 1/2"-3 1/2"	
64290U	SDR 5 - 3 1/2"-3"-3 1/2"	
64294U	SDR 5 - 4"-3"-4"	
64296U	SDR 11 - 4"-3 1/2"-4"	
REDUCED TEE, SDR 7,4, butt-welding	64298UK	SDR 7,4 - 6"-3"-6" fiber-T
	64299UK	SDR 7,4 - 6"-3 1/2"-6" fiber-T
	64300UK	SDR 7,4 - 6"-4"-6" fiber-T
	64302UK	SDR 7,4 - 8"-6"-8" fiber-T

REDUCED TEE, SDR 7,4, butt-welding, segmented fitting of faser FIBER-T pipe	64300UCK	SDR 7,4 - 6"-4"-6" fiber-T
	64302UCK	SDR 7,4 - 8"-6"-8" fiber-T
	64307UCK	SDR 7,4 - 10"-8"-10"fiber T
	643096UCK	SDR 7,4 - 12"-10"-12" fiber T
REDUCED TEE, SDR 11, butt-welding	64298U	SDR 11 -6"-3"-6"
	64299U	SDR 11 - 6"-3 1/2"-6"
	64300U	SDR 11 - 6"-4"-6"
	64302U	SDR 11 - 8"-6"-8"
	64306U	SDR 11 - 10"-6"-10"
	64307U	SDR 11 - 10"-8"-10"
	643094U	SDR 11 - 12"-8"-12"
643096U	SDR 11 - 12"-10"-12"	
REDUCED TEE, SDR 11, butt-welding, segmented fitting of faser FIBER-COND pipe	643122UC	SDR 17,6 - 14"-10"-14" fiber cond
	643124UC	SDR 17,6 - 14"-12"-14" fiber cond
	643152UC	SDR 17,6 - 16"-12"-16" fiber cond
	643154UC	SDR 17,6 - 16"-14"-16" fiber cond
REDUCED TEE, SDR 17,6, butt-welding	64300UCZ	SDR 17,6 - 6"-4"-6" fiber light
	64302UCZ	SDR 17,6 - 8"-6"-8" fiber-light
	64306UCZ	SDR 17,6 - 10"-6"-10"fiber light
	64307UCZ	SDR 17,6 - 10"-8"-10"fiber light
	643094UCZ	SDR 17,6 - 12"-8"-12"fiber light
	643096UCZ	SDR 17,6 - 12"-10"-12" fiber light
REDUCED TEE, SDR 17,6, butt-welding, segmented fitting of faser FIBER-LIGHT pipe	643124UCZ	SDR 17,6 - 14"-12"-14" fiber light
	643154UCZ	SDR 17,6 - 16"-14"-16" fiber light
	643182UCZ	SDR 17,6 - 18"-12"-18"
	643184UCZ	SDR 17,6 - 18"-14"-18"
	643186UCZ	SDR 17,6 - 18"-16"-18"
	643218UCZ	SDR 17,6 - 20"-16"-20"
	643220UCZ	SDR 17,6 - 20"-18"-20"
	643254UCZ	SDR 17,6 - 22"-18"-22"
	643256UCZ	SDR 17,6 - 22"-20"-22"
	643292UCZ	SDR 17,6 - 24"-20"-24"
643294UCZ	SDR 17,6 - 24"-22"-24"	
CROSS, SDR 5, socket-welding	64308U	SDR 5 - 1/2"

	64310U	SDR 5 - 3/4"
	64312U	SDR 5 - 1"
	64314U	SDR 5 - 1 1/4"
COVER CAP, SDR 5, for welding	65008U	SDR 5 - 1/2"
	65010U	SDR 5 - 3/4"
	65012U	SDR 5 - 1"
	65014U	SDR 5 - 1 1/4"
	65016U	SDR 5 - 1 1/2"
	65018U	SDR 5 - 2"
	65020U	SDR 5 - 2 1/2"
	65022U	SDR 5 - 3"
	65024U	SDR 5 - 3 1/2"
	65026U	SDR 5 - 4"
COVER CAP, SDR 7,4, butt-welding, short shank	65028UK	SDR 7,4 - 6"
	65030UK	SDR 7,4 - 8"
	65032UK	SDR 7,4 - 10"
	65034UK	SDR 7,4 - 12"
COVER CAP, SDR 11, butt-welding, long shank	65028U	SDR 11 - 6"
	65030U	SDR 11 - 8"
	65032U	SDR 11 - 10"
	65034U	SDR 11 - 12"
COVER CAP, SDR 11, butt-welding, short shank	65036U	SDR 11 - 14"
	65038U	SDR 11 - 16"
COVER CAP, SDR 17,6, butt-welding, long shank	65028UZ	SDR 17,6 - 6"
	65030UZ	SDR 17,6 - 8"
	65032UZ	SDR 17,6 - 10"
	65034UZ	SDR 17,6 - 12"
COVER CAP, SDR 17,6, butt-welding, short shank	65036UZ	SDR 17,6 - 14"
	65038UZ	SDR 17,6 - 16"
	65040UZ	SDR 17,6 - 18"
	65042UZ	SDR 17,6 - 20"
	65044UZ	SDR 17,6 - 22"
	65046UZ	SDR 17,6 - 24"
FUSION OUTLET, socket-welding	650472U	output 1/2" for pipe 1 1/4" weld in saddle500316/miller50348-50348A-50378
	650474U	output 3/4" for pipe 1 1/4" weld in saddle500316/miller50348-50348A-50378
	650478U	output 1/2" for pipe 1 1/2" weld in saddle500320/miller50348-50348A-50378
	650480U	output 3/4" for pipe 1 1/2" weld in saddle500320/miller50348-50348A-50378

	650498U	output 1/2 for pipe 2/weld in saddle 500340/miller 50348-50348A-50378 output 1/2 for pipe 2 1/2/weld in saddle 500348/miller 50348-50348A-50378
	650500U	output 3/4 for pipe 2/weld in saddle 500340/miller 50348-50348A-50378 output 3/4 for pipe 2 1/2/weld in saddle 500348/miller 50348-50348A-50378
	650502U	output 1 for pipe 2/weld in saddle 500342/miller 50352-50382 output 1 for pipe 2 1/2/weld in saddle 500360/miller 50352-50382
	650556U	output 1/2 for pipe 3/weld in saddle 500386/miller 50348-50348A-50378 output 1/2 for pipe 3 1/2/weld in saddle 500428/miller 50348-50348A-50378 output 1/2 for pipe 4/weld in saddle 500468/miller 50348-50348A-50378
	650558U	output 3/4 for pipe 3/weld in saddle 500386/miller 50348-50348A-50378 output 3/4 for pipe 3 1/2/weld in saddle 500428/miller 50348-50348A-50378 output 3/4 for pipe 4/weld in saddle 500468/miller 50348-50348A-50378
	650560U	output 1 for pipe 3/weld in saddle 500400/miller 50352-50382 output 1 for pipe 3 1/2/weld in saddle 500430/miller 50352-50382 output 1 for pipe 4/weld in saddle 500470/miller 50352-50382
	650580U	output 1 1/4 for pipe 3/weld in saddle500420/miller50354-50384
	650582U	output 1 1/2 for pipe 3/weld in saddle500422/miller50356-50386
	650600U	output 1 1/4 for pipe 3 1/2/weld in saddle500440/miller50354-50384
	650620U	output 1 1/2 for pipe 3 1/2/weld in saddle500460/miller50356-50386
	650622U	output 2 for pipe 3 1/2/weld in saddle500462/miller50358-50388
	650638U	output 1 1/4 for pipe 4/weld in saddle500472/miller50354-50384
	650640U	output 1 1/2 for pipe 4/weld in saddle500480/miller50356-50386
	650660U	output 2 for pipe 4/weld in saddle500500/miller50358-50388
	650672U	output 1/2 for pipe 6/weld in saddle 500508/miller 50348-50348A-50378 output 1/2 for pipe 8/weld in saddle 500586/miller 50348-50348A-50378
	650674U	output 3/4 for pipe 6/weld in saddle 500508/miller 50348-50348A-50378 output 3/4 for pipe 8/weld in saddle 500586/miller 50348-50348A-50378
	650676U	output 1 for pipe 6/weld in saddle 500510/miller 50352-50382 output 1 for pipe 8/weld in saddle 500588/miller 50352-50382
	650678U	output 1 1/4 for pipe 6/weld in saddle 500512/miller 50354-50384 output 1 1/4 for pipe 8/weld in saddle 500590/miller 50354-50384

	650680U	output 1½/for pipe 6/weld in saddle500520/miller50356-50386
	650700U	output 2/for pipe 6/weld in saddle500540/miller50358-50388
	650720U	output 2½/for pipe 6/weld in saddle500560/miller50360-50390
	650740U	output 3/for pipe 6/weld in saddle500580/miller50362-50392
	650760U	output 1½/for pipe 8/weld in saddle500600/miller50356-50386
	650780U	output 2/for pipe 8/weld in saddle500620/miller50358-50388
	650800U	output 2½/for pipe 8/weld in saddle500640/miller50360-50390
	650820U	output 3/for pipe 8/weld in saddle500660/miller50362-50392
	650840U	output 3½/for pipe 8/weld in saddle500680/miller50364-50394
	650860U	uscita125/for pipe 8/weld in saddle500700/miller50366-50396
	650872U	output ½/for pipe 10/weld in saddle 500702/miller 50348-50348A-50378 output ½/for pipe 12/weld in saddle 500822/miller 50348-50348A-50378
	650874U	output ¾/for pipe 10/weld in saddle 500702/miller 50348-50348A-50378 output ¾/for pipe 12/weld in saddle 500822/miller 50348-50348A-50378
	650876U	output 1/for pipe 10/weld in saddle 500704/miller 50352-50382 output 1/for pipe 12/weld in saddle 500824/miller 50352-50382
	650878U	output 1¼/for pipe 10/weld in saddle 500706/miller 50354-50384 output 1¼/for pipe 12/weld in saddle 500826/miller 50354-50384
	650880U	output 1½/for pipe 10/weld in saddle500720/miller50356-50386
	650900U	output 2/for pipe 10/weld in saddle500740/miller50358-50388
	650920U	output 2½/for pipe 10/weld in saddle500760/miller50360-50390

	650940U	output 3/for pipe 10/weld in saddle500780/miller50362-50392
	650960U	output 3½/for pipe 10/weld in saddle500800/miller50364-50394
	650980U	uscita125/for pipe 10/weld in saddle500820/miller50366-50396
	650994U	output 1½/for pipe 12/weld in saddle500828/miller50356-50386
	650996U	output 2/for pipe 12/weld in saddle500830/miller50358-50388
	650998U	output 2½/for pipe 12/weld in saddle500832/miller50360-50390
	651000U	output 30/for pipe 12/weld in saddle500834/miller50362-50392
	651002U	output 3½/for pipe 12/weld in saddle500836/miller50364-50394
	651004U	uscita125/for pipe 12/weld in saddle500838/miller50366-50396
	651012U	output ½/for pipe 14-16/weld in saddle 500842/miller 50348-50348A-50378 output ½/for pipe 18-24/weld in saddle 500842/miller 50378
	651014U	output ¾/for pipe 14-16/weld in saddle 500842/miller 50348-50348A-50378 output ¾/for pipe 18-24/weld in saddle 500842/miller 50378
	651016U	output 1/for pipe 14-16/weld in saddle 500844/miller 50352-50382 output 1/for pipe 18-24/weld in saddle 500844/miller 50382
	651018U	output 1¼/for pipe 14-400/weld in saddle 500846/miller 50354-50384 output 1¼/for pipe 18-630/weld in saddle 500846/miller 50384
	651020U	output 1½/for pipe 14-400/weld in saddle 500848/miller 50356-50386 output 1½/for pipe 18/weld in saddle 500860/miller 50386
	651021U	output 1½/for pipe 20-24/weld in saddle 500874/miller 50386
	651022U	output 2/for pipe 14-16/weld in saddle 500850/miller 50358-50388 output 2/for pipe 18/weld in saddle 500864/miller 50388
	651023U	output 2/for pipe 20-24/weld in saddle 500876/miller 50388
	651024U	output 2½/for pipe 14/weld in saddle500852/miller50360-50390

	651026U	output 3/for pipe 14/weld in saddle500854/miller50362-50392
	651028U	output 3½/for pipe 14/weld in saddle500856/miller50364-50394
	651030U	uscita125/for pipe 14/weld in saddle500858/miller50366-50396
	651040U	output 2½/for pipe 16/weld in saddle500852/miller50360-50390
	651041U	output 2½/for pipe 18/weld in saddle 500866/miller 50390 output 2½/for pipe 20/weld in saddle 500878/miller 50390 output 2½/per tubo 22/weld in saddle 500886/miller 50390 output 2½/for pipe 24/weld in saddle 500894/miller 50390
	651042U	output 3/for pipe 16/weld in saddle 500854/miller 50362-50392 output 3/for pipe 18/weld in saddle 500868/miller 50392
	651043U	output 3/for pipe 20/weld in saddle 500880/miller 50392 output 3/per tubo 22/weld in saddle 500888/miller 50392 output 3/for pipe 24/weld in saddle 500896/miller 50392
	651044U	output 3½/for pipe 16/weld in saddle 500856/miller 50364-50394 output 3½/for pipe 18/weld in saddle 500870/miller 50394
	651045U	output 3½/for pipe 20/weld in saddle 500882/miller 50394 output 3½/per tubo 22/weld in saddle 500890/miller 50394
	651047U	output 3½/for pipe 24/weld in saddle 500898/miller 50394
	651046U	uscita125/for pipe 16/weld in saddle500858/miller50366-50396
	651048U	output 4/for pipe 18/weld in saddle 500872/miller 50396 output 4/for pipe 20/weld in saddle 500884/miller 50396
	651049U	output 4/per tubo 22/weld in saddle 500892/miller 50396 output 4/for pipe 24/weld in saddle 500990/miller 50396
TRANSITION FITTING from copper to PP-R pipes	65100U	F½" for pipe ½"
	65102U	F¾" for pipe ¾"
	65106U	F1" for pipe 1"
TRANSITION FITTING EXPANSION from PE-X to PP-R pipes	65110U	F½" for pipe ½"
	65112U	F½" for pipe ¾"
	65114U	F¾" for pipe ¾"
	65116U	F1" for pipe 1"
TRANSITION FITTING CRIMP from PE-X to PP-R pipes	65120U	F½" for pipe ½"
	65122U	F½" for pipe ¾"
	65124U	F¾" for pipe ¾"
	65126U	F1" for pipe 1"
PP-R TO GROOVED PIPE TRANSITION, coupling not included	652014U	1 1/4"- 1 1/4"
	652016U	1 1/2"- 1 1/2"
	652018U	2"- 2"

DIRECT JOINT, SDR 5, socket-welding	65132U	SDR 5 - output Ø ½", for pipe 1½"~10", miller 50346-50346A
	65134U	SDR 5 - output Ø ¾", for pipe 2"~10" miller 50348-50348A output Ø ¾", for pipe 2"~24", miller 50378
	65136U	SDR 5 - output Ø 1", for pipe 2½"~10", miller 50352 output Ø 1", for pipe 2½"~24", miller 50382
	65138U	SDR 5 - output Ø 1¼", for pipe 3"~10", miller 50354 output Ø 1¼", for pipe 3"~24", miller 50394
THREADED DIRECT JOINT F, SDR 5, socket-welding	65152U	SDR 5 - output Ø ½", for pipe 1½"~10", miller 50346-50346A
	65154U	SDR 5 - output Ø ¾", for pipe 1½"~10", miller 50348-50348A output Ø ¾", for pipe 1½"~24", miller 50378
FUSIO-TECHNIK DIRECT JOINT WITH SAFETY DERIVATION	65170U	SDR 5 - output Ø ½"-sm, for pipe 1½"~10", miller 50346-50346A
	65172U	SDR 5 - output Ø ⅝"-sm, for pipe 1½"~10" miller 50346-50346A
	65174U	SDR 5 - output Ø ⅞"-sm, for pipe 2"~10", miller 50348-50348A output Ø ⅞"-sm, for pipe 2"~24", miller 50378
COLLAR TO WELD, SDR 11, socket-welding, with O-Ring, for flanges and PP valves series 40358	65208U	SDR 11 - ½"
	65210U	SDR 11 - ¾"
	65212U	SDR 11 - 1"
	65214U	SDR 11 - 1¼"
	65216U	SDR 11 - 1½"
	65218U	SDR 11 - 2"
	65220U	SDR 11 - 2½"
	65222U	SDR 11 - 3"
	65224U	SDR 11 - 3½"
65226U	SDR 11 - 4"	
COLLAR TO WELD, SDR 7,4, butt-welding, short shank	65228UK	SDR 7,4 - 6"
	65230UK	SDR 7,4 - 8"
	65232UK	SDR 7,4 - 10"
	65234UK	SDR 7,4 - 12"
COLLAR TO WELD, SDR 11, butt-welding, long shank	65228U	SDR 11 - 6"
	65230U	SDR 11 - 8"
	65232U	SDR 11 - 10"
	65234U	SDR 11 - 12"
COLLAR TO WELD, SDR 11, butt-welding, short shank	65236U	SDR 11 - 14"

	65238U	SDR 11- 16"
COLLAR TO WELD, SDR 17,6, butt-welding, long shank	65228UZ	SDR 17,6 - 6"
	65230UZ	SDR 17,6 - 8"
	65232UZ	SDR 17,6 - 10"
	65234UZ	SDR 17,6 - 12"
COLLAR TO WELD, SDR 17,6, butt-welding, short shank	65236UZ	SDR17,6 - 14"
	65238UZ	SDR 17,6- 16"
	65240UZ	SDR 17,6 - 18"
	65242UZ	SDR 17,6 - 20"
	65244UZ	SDR 17,6 - 22"
	65246UZ	SDR 17,6 - 24"
FLANGES	65266U	for collar ½"
	65268U	for collar ¾"
	65270U	for collar 1"
	65272U	for collar 1¼"
	65274U	for collar 1½"
	65276U	for collar 2"
	65278U	for collar 2½"
	65280U	for collar 3"
	65282U	for collar 3½"
	65284U	for collar 4"
	65286U	for collar 6"
	65290U	for collar 8"
	65292U	for collar 10"
	65294U	for collar 12"
	65296U	for collar 14"
	65298U	for collar 16"
	65300U	for collar 18"
	65302U	for collar 20"
65304U	for collar 22"	
65306U	for collar 24"	
SWAN NECK faser FIBER-T, socket-welding	65414U	SDR 7,4 - 1/2"
	65416U	SDR 7,4 - 3/4"
	65418U	SDR 7,4 - 1"

MOULDED SWAN NECK, SDR 5, socket-welding	65438U	SDR 5 - 1/2"
CURVE 90° F/F, SDR 5, socket-welding, double coupling wide radius	65458U	SDR 5 - 1/2"
	65460U	SDR 5 - 3/4"
THREADED JOINT F., SDR 5, socket-welding, with alloy NPT thread	66008U	SDR 5 - F $\frac{1}{2}$ " - $\frac{1}{2}$ "
	66009U	SDR 5 - F $\frac{1}{2}$ " - $\frac{3}{4}$ "
	66010U	SDR 5 - F $\frac{3}{4}$ " - $\frac{3}{4}$ "
	66011U	SDR 5 - F $\frac{3}{4}$ " - $\frac{1}{2}$ "
	66013U	SDR 5 - F $\frac{3}{4}$ " - 1"
THREADED JOINT F, SDR 5, socket-welding, with hexagonal seat and alloy NPT thread	66108U	SDR 5 - F $\frac{1}{2}$ " - $\frac{1}{2}$ "
	66109U	SDR 5 - F $\frac{3}{4}$ " - $\frac{1}{2}$ "
	66110U	SDR 5 - F $\frac{3}{4}$ " - $\frac{3}{4}$ "
	66112U	SDR 5 - F1" - 1"
	66114U	SDR 5 - F1 $\frac{1}{4}$ " - 1 $\frac{1}{4}$ "
	66116U	SDR 5 - F1 $\frac{1}{2}$ " - 1 $\frac{1}{2}$ "
	66118U	SDR 5 - F2" - 2"
	66120U	SDR 5 - F2 $\frac{1}{2}$ " - 2 $\frac{1}{2}$ "
	66122U	SDR 5 - F3" - 3"
	66124U	SDR 5 - F4" - 3 $\frac{1}{2}$ "
	66125U	SDR 5 - F4" - 4"
66126U	SDR 5 - F5" - 4"	
THREADED JOINT F, SDR 5, male socket-welding, with alloy NPT thread	66150U	SDR 5 - F $\frac{1}{2}$ " - $\frac{1}{2}$ "
THREADED JOINT F, SDR 5, male socket-welding, with hexagonal seat and alloy NPT thread	66158U	SDR 5 - F $\frac{1}{2}$ " - $\frac{1}{2}$ "
THREADED JOINT M, SDR 5, socket-welding, with alloy NPT thread	66208U	SDR 5 - M $\frac{1}{2}$ " - $\frac{1}{2}$ "
	66209U	SDR 5 - M $\frac{1}{2}$ " - $\frac{3}{4}$ "
	66210U	SDR 5 - M $\frac{3}{4}$ " - $\frac{3}{4}$ "
	66211U	SDR 5 - M $\frac{3}{4}$ " - $\frac{1}{2}$ "
	66213U	SDR 5 - M $\frac{3}{4}$ " - 1"
THREADED JOINT M, SDR 5, socket-welding, with hexagonal seat and alloy NPT thread	66308U	SDR 5 - M $\frac{1}{2}$ " - $\frac{1}{2}$ "
	66310U	SDR 5 - M $\frac{3}{4}$ " - $\frac{3}{4}$ "
	66311U	SDR 5 - M $\frac{3}{4}$ " - $\frac{1}{2}$ "

	66312U	SDR 5 - M1" - 1"
	66314U	SDR 5 - M1¼" - 1¼"
	66316U	SDR 5 - M1½" - 1½"
	66318U	SDR 5 - M2" - 2"
	66320U	SDR 5 - M2½" - 2½"
	66321U	SDR 5 - M2½" - 3"
	66322U	SDR 5 - M3" - 3"
	66324U	SDR 5 - M3" - 3½"
	66325U	SDR 5 - M4" - 3½"
	66327U	SDR 5 - M4" - 4"
	66326U	SDR 5 - M5" - 4"
THREADED JOINT M, SDR 5, male socket-welding, with alloy NPT thread	66350U	SDR 5 - M½" - ½"
THREADED JOINT M, SDR 5, male socket-welding, with hexagonal seat and alloy NPT thread	66358U	SDR 5 - M½" - ½"
THREADED ELBOW F, SDR 5, socket-welding, with alloy NPT thread	67008U	SDR 5 - F½" - ½"
	67009U	SDR 5 - F½" - ¾"
	67010U	SDR 5 - F¾" - ¾"
	67011U	SDR 5 - F¾" - ½"
	67013U	SDR 5 - F¾" - 1"
	67014U	SDR 5 - F1" - 1"
THREADED ELBOW F WITH BRACKET, SDR 5, male socket-welding, with alloy NPT thread	67108U	SDR 5 - F½" - ½"
	67109U	SDR 5 - F¾" - ½"
	67110U	SDR 5 - F¾" - ¾"
	67111U	SDR 5 - F½" - ¾"
DOUBLE TERMINAL KIT, multiple inputs, female NPT threads, with closing caps for surplus in-put	67178U	F½" - ½"interaxis 5,91"

TERMINAL BRACKET WITH DOUBLE INTEGRATED ELBOW, female NPT threads	67190U	F $\frac{1}{2}$ " - $\frac{3}{4}$ " interaxis 5,91"
THREADED ELBOW F, SDR 5, male socket welding, with alloy NPT thread	67208U	SDR 5 - F $\frac{1}{2}$ " - $\frac{1}{2}$ "
THREADED ELBOW M, SDR 5, socket-welding, with alloy NPT thread	67500U	SDR 5 - M $\frac{1}{2}$ " - $\frac{3}{4}$ "
	67508U	SDR 5 - M $\frac{1}{2}$ " - $\frac{1}{2}$ "
	67509U	SDR 5 - M $\frac{3}{4}$ " - $\frac{1}{2}$ "
	67510U	SDR 5 - M $\frac{3}{4}$ " - $\frac{3}{4}$ "
	67511U	SDR 5 - M $\frac{3}{4}$ " - 1"
	67512U	SDR 5 - M1" - 1"
THREADED TEE F, SDR 5, socket-welding, with alloy NPT thread	68008U	SDR 5 - $\frac{1}{2}$ " - F $\frac{1}{2}$ " - $\frac{1}{2}$ "
	68009U	SDR 5 - $\frac{1}{2}$ " - F $\frac{3}{4}$ " - $\frac{1}{2}$ "
	68010U	SDR 5 - $\frac{3}{4}$ " - F $\frac{3}{4}$ " - $\frac{3}{4}$ "
	68011U	SDR 5 - $\frac{3}{4}$ " - F $\frac{1}{2}$ " - $\frac{3}{4}$ "
	68014U	SDR 5 - 1" - F $\frac{3}{4}$ " - 1"
	68016U	SDR 5 - 1" - F1" - 1"
THREADED TEE M, SDR 5, socket-welding, with alloy NPT thread	68508U	SDR 5 - $\frac{1}{2}$ " - M $\frac{1}{2}$ " - $\frac{1}{2}$ "
THREADED PIPE UNION M, SDR 11, male socket-welding, with alloy NPT thread	69230U	SDR 11 - M $\frac{1}{2}$ " - $\frac{1}{2}$ "
	69232U	SDR 11 - M $\frac{3}{4}$ " - $\frac{3}{4}$ "
	69234U	SDR 11 - M1" - 1"
	69236U	SDR 11 - M1 $\frac{1}{4}$ " - 1 $\frac{1}{4}$ "
	69238U	SDR 11 - M1 $\frac{1}{2}$ " - 1 $\frac{1}{2}$ "
	69240U	SDR 11 - M2" - 2"

THREADED PIPE UNION F, SDR 11, male socket-welding, with alloy NPT thread	69260U	SDR 11 - F $\frac{1}{2}$ " - $\frac{1}{2}$ "
	69262U	SDR 11 - F $\frac{3}{4}$ " - $\frac{3}{4}$ "
	69264U	SDR 11 - F1" - 1"
	69266U	SDR 11 - F1 $\frac{1}{4}$ " - 1 $\frac{1}{4}$ "
	69268U	SDR 11 - F1 $\frac{1}{2}$ " - 1 $\frac{1}{2}$ "
	69270U	SDR 11 - F2" - 2 "
PIPE UNION, SDR 11, female socket-welding, with ISO thread, external ring in CW 117	69280U	SDR 11 - $\frac{1}{2}$ " - $\frac{1}{2}$ "
	69282U	SDR 11 - $\frac{3}{4}$ " - $\frac{3}{4}$ "
	69284U	SDR 11 - 1" - 1"
	69286U	SDR 11 - 1 $\frac{1}{4}$ " - 1 $\frac{1}{4}$ "
	69288U	SDR 11 - 1 $\frac{1}{2}$ " - 1 $\frac{1}{2}$ "
	69290U	SDR 11 - 2" - 2 "
PIPE UNION in PP-R, SDR 11, female socket-welding	69320U	SDR 11 - $\frac{1}{2}$ " - $\frac{1}{2}$ "
	69322U	SDR 11 - $\frac{3}{4}$ " - $\frac{3}{4}$ "
	69324U	SDR 11 - 1" - 1"
PIPE UNION WITH CHECK VALVE, in synthetic material, female socket-welding	69360U	SDR 11 - $\frac{1}{2}$ " - $\frac{1}{2}$ "
	69362U	SDR 11 - $\frac{3}{4}$ " - $\frac{3}{4}$ "
	69364U	SDR 11 - 1" - 1"
RING NUT, of PA-M, for pipe union in PP-R	40328	$\frac{1}{2}$ "
	40330	$\frac{3}{4}$ "
	40332	1"
EUROCONE FITTING IN PP-R	69390U	$\frac{1}{2}$ "
RING NUT, socket-welding, with alloy thread	69314U	F $\frac{1}{2}$ "
ELECTRIC COUPLING, SDR 5, socket-welding, low tension	69508U	SDR 5 - $\frac{1}{2}$ "
	69510U	SDR 5 - $\frac{3}{4}$ "
	69512U	SDR 5 - 1"
	69514U	SDR 5 - 1 $\frac{1}{4}$ "
	69516U	SDR 5 - 1 $\frac{1}{2}$ "

	69518U	SDR 5 - 2"
	69520U	SDR 5 - 2½"
	69522U	SDR 5 - 3"
	69524U	SDR 5 - 3½"
	69526U	SDR 5 - 4"
ELECTRIC COUPLING, SDR 11 socket-welding, low tension, grey color	69528	SDR 11 - 6"
	69530	SDR 11 - 8"
	69532	SDR 11 - 10"
	69534	SDR 11 - 12"
	69536	SDR 11 - 14"
	69538	SDR 11 - 16"
ELECTRIC COUPLING, SDR 17,6 socket-welding, low tension, white color	69534UZ	SDR 17,6 - 12"
	69536UZ	SDR 17,6 - 14"
	69538UZ	SDR 17,6 - 16"
	69540UZ	SDR 17,6 - 18"
	69542UZ	SDR 17,6 - 20"
	69544UZ	SDR 17,6 - 22"
	69546UZ	SDR 17,6 - 24"
TANG, male socket-welding, for ball valve, for serie 40008U,40058U, 40068U, 40098U	40208U	F¾" - ½"
	40210U	F1" - ¾"
	40212U	F1¼" - 1"
	40214U	F1½" - 1¼"
	40216U	F2" - 1½"
	40218U	F2½" - 2"

faser -UVRES PIPE, SDR, 7,4, PP-RCT/PP-R, multilayer pipe to convey hot and cold potable and not-potable fluids, with external layer in PP-R mixed with special additives that warranties ultraviolet radiation protection, resistance to direct sunlight exposure, intermediate layer loaded with special fibers and inner layer in PP-RCT WOR (White Oxidation Resistance), inner layer white color, external layer black color, rods length 19 ft	61358SR	SDR 7,4 - 1/2"-0,11"
	61360SR	SDR 7,4 - 3/4" -0,14"
	61362SR	SDR 7,4 - 1"-0,17"
	61364SR	SDR 7,4 - 1 1/4"-0,22"
	61366SR	SDR 7,4 - 1 1/2"-0,27"
	61368SR	SDR 7,4 - 2"-0,34"
	61370SR	SDR 7,4 - 2 1/2"-0,41"
	61372SR	SDR 7,4 - 3"-0,48"
	61374SR	SDR 7,4 - 3 1/2"-0,59"
	61376SR	SDR 7,4 - 4"-0,67"

faser UVRES PIPE, SDR, 11 PP-RCT/PP-R, multilayer pipe to convey hot and cold potable and not-potable fluids, with external layer in PP-R mixed with special additives that warranties ultraviolet radiation protection, resistance to direct sunlight exposure, intermediate layer loaded with special fibers and inner layer in PP-RCT WOR (White Oxidation Resistance), inner layer white color, external layer black color, rods length 19 ft	61468SR	SDR 11 - 2"-0,23"
	61470SR	SDR 11 - 2 1/2"-0,27"
	61472SR	SDR 11 - 3"-0,32"
	61474SR	SDR 11 - 3 1/2"-0,39"
	61476SR	SDR 11 - 4"-0,45"
	61478SR	SDR 11 - 6"-0,57"
	61480SR	SDR 11 - 8"-0,72"
	61482SR	SDR 11 - 10"-0,89"
	61484SR	SDR 11 - 12"-1,12"
PIPE COUPLING, SDR 5, socket-welding	62008SR	SDR 5 - 1/2"
	62010SR	SDR 5 - 3/4"
	62012SR	SDR 5 - 1"
	62014SR	SDR 5 - 1 1/4"
	62016SR	SDR 5 - 1 1/2"
	62018SR	SDR 5 - 2"
	62020SR	SDR 5 - 2 1/2"
	62022SR	SDR 5 - 3"
	62024SR	SDR 5 - 3 1/2"
62026SR	SDR 5 - 4"	
REDUCED PIPE COUPLING, SDR 5, socket-welding	62312SR	SDR 5 - 3/4"-1/2"
	62316SR	SDR 5 - 1"-3/4"
REDUCER, SDR 5, M/F, socket-welding	62112SR	SDR 5 - M3/4"-F1/2"
	62114SR	SDR 5 - M1"-F1/2"
	62116SR	SDR 5 - M1"-F3/4"
	62118SR	SDR 5 - M1 1/4"-F1/2"
	62120SR	SDR 5 - M1 1/4"-F3/4"
	62122SR	SDR 5 - M1 1/4"-F1"
	62124SR	SDR 5 - M1 1/2"-F1/2"
	62126SR	SDR 5 - M1 1/2"-F3/4"
	62128SR	SDR 5 - M1 1/2"-F1"
	62130SR	SDR 5 - M1 1/2"-F1 1/4"
	62132SR	SDR 5 - M2"-F3/4"
	62134SR	SDR 5 - M2"-F1"
	62136SR	SDR 5 - M2"-F1 1/4"
	62138SR	SDR 5 - M2"-F1 1/2"
	62139SR	SDR 5 - M2 1/2"-F1 1/4"
62140SR	SDR 5 - M2 1/2"-F1 1/2"	

	62142SR	SDR 5- M2 1/2"-F2"
	62144SR	SDR 5 - M3"-F1 1/2"
	62152SR	SDR 5 - M3"-F2"
	62153SR	SDR 5 - M3"-F2 1/2"
	62155SR	SDR 5 - M3 1/2"-F2"
	62157SR	SDR 5 - M3 1/2"-F2 1/2"
	62159SR	SDR 5 - M3 1/2"-F3"
	62168SR	SDR 5 - M4"-F2 1/2"
	62170SR	SDR 5 - M4"-3"
	62172SR	SDR 5 -M4"-F 1/2"
REDUCER, SDR 7,4, butt-welding, short shank	62173SR	SDR 7,4 - 6"-3"
	62174SR	SDR 7,4 - 6"-3 1/2"
	62176SR	SDR 7,4 - 6"-4"
	62180SR	SDR 7,4 - 8"-4"
	62182SR	SDR 7,4 - 8"-6"
	62184SR	SDR 7,4 - 10"-6"
	62186SR	SDR 7,4 - 10"-8"
	62200SR	SDR 17,4 - 12"-10"
ELBOW 90°, SDR 5, socket-welding	63108SR	SDR 5 - 1/2"
	63110SR	SDR 5 - 3/4"
	63112SR	SDR 5 - 1"
	63114SR	SDR 5 - 1 1/4"
	63116SR	SDR 5 - 1 1/2"
	63118SR	SDR 5 - 2"
	63120SR	SDR 5 - 2 1/2"
	63122SR	SDR 5 - 3"
	63124SR	SDR 5 - 3 1/2"
	63126SR	SDR 5 - 4"
ELBOW 90°, SDR 11, butt-welding	63128SR	SDR 11 - 6"
	63130SR	SDR 11 - 8"
	63132SR	SDR 11 - 10"
	63134SR	SDR 11 - 12"
ELBOW M/F 90°, SDR 7,4, socket-welding	63308SR	SDR 5 - 1/2"
	63310SR	SDR 5 - 3/4"
	63312SR	SDR 5 - 1"
	63314SR	SDR 5 - 1 1/4"

ELBOW 45°, SDR 5, socket-welding	63508SR	SDR 5- 1/2"
	63510SR	SDR 5 - 3/4"
	63512SR	SDR 5 - 1"
	63514SR	SDR 5 - 1 1/4"
	63516SR	SDR 5 - 1 1/2"
	63518SR	SDR 5 - 2"
	63520SR	SDR 5 - 2 1/2"
	63522SR	SDR 5 - 3"
	63524SR	SDR 5 - 3 1/2"
	63526SR	SDR 5 - 4"
ELBOW 45°, SDR 11, butt-welding	63528SR	SDR 11 - 6"
	63530SR	SDR 11 - 8"
	63532SR	SDR 11 - 10"
	63534SR	SDR 11 - 12"
ELBOW M/F 45°, SDR 5, socket-welding	63708SR	SDR 5 - 1/2"
	63710SR	SDR 5 - 3/4"
	63712SR	SDR 5 - 1"
TEE, SDR 5, socket-welding	64108SR	SDR 5 - 1/2"
	64110SR	SDR 5 - 3/4"
	64112SR	SDR 5 - 1"
	64114SR	SDR 5 - 1 1/4"
	64116SR	SDR 5 - 1 1/2"
	64118SR	SDR 5 - 2"
	64120SR	SDR 5 - 2 1/2"
	64122SR	SDR 5 - 3"
	64124SR	SDR 5 - 3 1/2"
	64126SR	SDR 5 - 4"
TEE, SDR 11, butt-welding	64128SR	SDR 11- 6"
	64130SR	SDR 11 - 8"
	64132SR	SDR 11 - 10"
	64134SR	SDR 11 - 12"
REDUCED TEE, SDR 5, socket-welding	64220SR	SDR 5 - 3/4"-1/2"-1/2"
	64222SR	SDR 5 - 3/4"-1/2"-3/4"

	64232SR	SDR 5 - 1"-3/4"-3/4"
	64234SR	SDR 5 -1"-1/2"-1"
	64240SR	SDR 5 - 1"-3/4"-1"
	64242SR	SDR 5 - 1 1/4"-1/2"-1 1/4"
	64244SR	SDR 5 - 1 1/4"-3/4"-1 1/4"
	64245SR	SDR 5 - 1 1/4"-1"-1"
	64246SR	SDR 5 - 1 1/4"-1"-1 1/4"
	64247SR	SDR 5 - 1 1/2"-1/2"-1 1/2"
	64248SR	SDR 5 - 1 1/2"-3/4"-1 1/2"
	64250SR	SDR 5 - 1 1/2"-1"-1 1/2"
	64251SR	SDR 5 - 1 1/2"-1 1/4"-1 1/2"
	64252SR	SDR 5 - 2"-1/2"-2"
	64254SR	SDR 5 - 2"-3/4"-2"
	64256SR	SDR 5 - 2"-1"-2"
	64258SR	SDR 5 - 2"-1 1/4"-2"
	64260SR	SDR 5 - 2"-1 1/2"-2"
	64261SR	SDR 5 - 2 1/2"-1/2"-2 1/2"
	64262SR	SDR 5 - 2 1/2"-3/4"-2 1/2"
	64264SR	SDR 5 - 2 1/2"-1"-2 1/2"
	64266SR	SDR 5 - 2 1/2"-1 1/4"-2 1/2"
	64268SR	SDR 5 - 2 1/2"-1 1/2"-2 1/2"
	64270SR	SDR 5 - 2 1/2"-2"-2 1/2"
	64280SR	SDR 5 - 3"-1 1/2"-3"
	64282SR	SDR 5 - 3"-2"-3"
	64284SR	SDR 5 - 3"-2 1/2"-3"
	64286SR	SDR 5 - 3 1/2"-2"-3 1/2"
	64288SR	SDR 5 - 3 1/2"-2 1/2"-3 1/2"
	64290SR	SDR 5 - 3 1/2"-3"-3 1/2"
	64294SR	SDR 5 - 4"-3"-4"
	64296SR	SDR 11 - 4"-3 1/2"-4"
REDUCED TEE, SDR 11, butt-welding	64298SR	SDR 11 -6"-3"-6"
	64299SR	SDR 11 - 6"-3 1/2"-6"
	64300SR	SDR 11 - 6"-4"-6"
	64302SR	SDR 11 - 8"-6"-8"
	64306SR	SDR 11 - 10"-6"-10"
	64307SR	SDR 11 - 10"-8"-10"
	643094SR	SDR 11 - 12"-8"-12"
	643096SR	SDR 11 - 12"-10"-12"
CROSS, SDR 5, socket-welding	64308SR	SDR 5 - 1/2"
	64310SR	SDR 5 - 3/4"
	64312SR	SDR 5 - 1"
	64314SR	SDR 5 - 1 1/4"
CROSS, SDR 11, socket-welding, segmented	64322SRC	SDR 5 - 3" faser UVRES SDR 11
	64326SRC	SDR 5 - 4" faser UVRES SDR 11
	64328SRC	SDR 11 - 6 "faser UVRES SDR 11
	64330SRC	SDR 11 - 8" faser UVRES SDR 11
	64332SRC	SDR 11 - 10" faser UVRES SDR 11
	64334SRC	SDR 11 - 12" faser UVRES SDR 11
COVER CAP, SDR 5, for welding	65008SR	SDR 5 - 1/2"

	65010SR	SDR 5 - 3/4"
	65012SR	SDR 5 - 1"
	65014SR	SDR 5 - 1 1/4"
	65016SR	SDR 5 - 1 1/2"
	65018SR	SDR 5 - 2"
	65020SR	SDR 5 - 2 1/2"
	65022SR	SDR 5 - 3"
	65024SR	SDR 5 - 3 1/2"
	65026SR	SDR 5 - 4"
COVER CAP, SDR 11, butt-welding, long shank	65028SR	SDR 11 - 6"
	65030SR	SDR 11 - 8"
	65032SR	SDR 11 - 10"
	65034SR	SDR 11 - 12"
FUSION OUTLET, socket welding	650472SR	1/2 for pipe 1 1/4"
	650474SR	3/4 for pipe 1 1/4"
	650478SR	1/2 for pipe 1 1/2"
	650480SR	3/4 for pipe 1 1/2"
	650498SR	1/2 for pipe 2 - 2 1/2"
	650500SR	3/4 for pipe 2 - 2 1/2"
	650502SR	1 for pipe 2 - 2 1/2"
	650556SR	1/2" for pipe 3 -3 1/2 - 4"
	650558SR	3/4" for pipe 3 -3 1/2 - 4"
	650560SR	1" for pipe 3 -3 1/2 - 4"
	650580SR	1 1/4" for pipe 3"
	650582SR	1 1/2" for pipe 3"
	650600SR	1 1/4" for pipe 3 1/2"
	650620SR	1 1/2" for pipe 3 1/2"
	650622SR	2" for pipe 3 1/2"
	650638SR	1 1/4" for pipe 4"
	650640SR	1 1/2" for pipe 4"
	650660SR	2" for pipe 4"
	650672SR	1/2" for pipe 6"- 8"
	650674SR	3/4" for pipe 6"- 8"
	650676SR	1" for pipe 6"- 8"
	650678SR	1 1/4" for pipe 6"- 8"
	650680SR	1 1/2" for pipe 6"
	650700SR	2" for pipe 6"
	650720SR	2 1/2" for pipe 6"
	650740SR	3" for pipe 6"
	650760SR	1 1/2" for pipe 8"
	650780SR	2" for pipe 8"
	650800SR	2 1/2" for pipe 8"
	650820SR	3" for pipe 8"
	650840SR	3 1/2" for pipe 8"
	650860SR	4" for pipe 8"
	650872SR	1/2 for pipe 10"-12"
	650874SR	3/4 for pipe 10"-12"
	650876SR	1" for pipe 10"-12"
	650878SR	1 1/4" for pipe 10"-12"
	650880SR	1 1/2" for pipe 10"
	650900SR	2" for pipe 10"
	650920SR	2 1/2" for pipe 10"
	650940SR	3" for pipe 10"

	650960SR	3½" for pipe 10"
	650980SR	4" for pipe 10"
	650994SR	1 1/2 for pipe 12"
	650996SR	2 for pipe 12"
	650998SR	2 1/2 for pipe 12"
	651000SR	3" for pipe 12"
	651002SR	3½" for pipe 12"
	651004SR	4" for pipe 12"
	651012SR	1/2" pipe 14-16-18-20-22-24"
	651014SR	3/4" pipe 14-16-18-20-22-24"
	651016SR	1" pipe 14-16-18-20-22-24"
	651018SR	1 1/4" pipe 14-16-18-20-22-24"
	651020SR	1 1/2 for pipe 14-16-18"
	651022SR	2 for pipe 14-16-18"
	651024SR	2 1/2 for pipe 14"
	651026SR	3" for pipe 14"
	651028SR	3 1/2" for pipe 14"
	651030SR	4" for pipe 14"
	651040SR	2 1/2 for pipe 16"
	651042SR	3" for pipe 16"
	651044SR	3 1/2" for pipe 16"
	651046SR	4" for pipe 16"
DIRECT JOINT, SDR 5, socket-welding	65132SR	SDR 5 - output Ø ½", for pipe 1½"-10"
	65134SR	SDR 5 - output Ø ¾", for pipe 2"-10"
	65136SR	SDR 5 - output Ø 1", for pipe 2½"-10"
	65138SR	SDR 5 - output Ø 1¼", for pipe 2½"-10"
THREADED DIRECT JOINT F, SDR 5, socket-welding	65152SRU	SDR 5 - output Ø ½", for pipe 1½"-10"
	65154SRU	SDR 5 - output Ø ¾", for pipe 1½"-10"
FUSIO-TECHNIK DIRECT JOINT WITH SAFETY DERIVATION	65170SRU	SDR 5 - output Ø ½"-sm, for pipe 1½"-10"
	65172SRU	SDR 5 - output Ø ⅝"-sm, for pipe 1½"-10"
	65174SRU	SDR 5 - output Ø ⅞"-sm, for pipe 2"-10"
COLLAR TO WELD, SDR 11, socket-welding, with O-Ring, for flanges and PP valves series 40358	65208SR	SDR 11 - ½" - collar OD 1,02
	65210SR	SDR 11 - ¾" - collar OD 1,30
	65212SR	SDR 11 - 1" - collar OD 1,57
	65214SR	SDR 11 - 1¼" - collar OD 1,93
	65216SR	SDR 11 - 1½" - collar OD 2,28
	65218SR	SDR 11 - 2" - collar OD 2,87
	65220SR	SDR 11 - 2½" - collar OD 3½
	65222SR	SDR 11 - 3" - collar OD 4,25
	65224SR	SDR 11 - 3½" - collar OD 5,12
65226SR	SDR 11 - 4" - collar OD 5,79	
COLLAR TO WELD, SDR 11, butt-welding	65228SR	SDR 11 - 6" - collar OD 8,35
	65230SR	SDR 11 - 8" - collar OD 10,55
	65232SR	SDR 11 - 10"
	65234SR	SDR 11 - 12"

THREADED JOINT F, SDR 5, socket-welding, with hexagonal seat and alloy thread	66108SRU	SDR 5 - F $\frac{1}{2}$ " - $\frac{1}{2}$ "
	66109SRU	SDR 5 - F $\frac{3}{4}$ " - $\frac{1}{2}$ "
	66110SRU	SDR 5 - F $\frac{3}{4}$ " - $\frac{3}{4}$ "
	66112SRU	SDR 5 - F1" - 1"
	66114SRU	SDR 5 - F1 $\frac{1}{4}$ " - 1 $\frac{1}{4}$ "
	66116SRU	SDR 5 - F1 $\frac{1}{2}$ " - 1 $\frac{1}{2}$ "
	66118SRU	SDR 5 - F2" - 2"
	66120SRU	SDR 5 - F2 $\frac{1}{2}$ " - 2 $\frac{1}{2}$ "
THREADED JOINT M, SDR 5, socket-welding, with hexagonal seat and alloy thread	66308SRU	SDR 5 - M $\frac{1}{2}$ " - $\frac{1}{2}$ "
	66310SRU	SDR 5 - M $\frac{3}{4}$ " - $\frac{3}{4}$ "
	66311SRU	SDR 5 - M $\frac{3}{4}$ " - $\frac{1}{2}$ "
	66312SRU	SDR 5 - M1" - 1"
	66314SRU	SDR 5 - M1 $\frac{1}{4}$ " - 1 $\frac{1}{4}$ "
	66316SRU	SDR 5 - M1 $\frac{1}{2}$ " - 1 $\frac{1}{2}$ "
	66318SRU	SDR 5 - M2" - 2"
	66320SRU	SDR 5 - M2 $\frac{1}{2}$ " - 2 $\frac{1}{2}$ "
	66321SRU	SDR 5 - M2 $\frac{1}{2}$ " - 3"
	66322SRU	SDR 5 - M3" - 3"
	66324SRU	SDR 5 - M3" - 3 $\frac{1}{2}$ "

Conditions of Listing:

1. The products recognized in this listing must be installed in accordance with the manufacturer's published installation instructions and the applicable codes.
2. Where used in radiant heating systems, the pipe and fittings are recognized for use with water, as well as aqueous solutions of ethylene glycol or propylene glycol for antifreeze, up to 100 percent concentrations of either glycol.
3. When installation is in fire-resistance-rated assemblies, evidence of compliance with IBC Section 712 (penetrations) must be provided to the code official for approval.
4. During placement of cover over the piping, the pipe must be maintained at the greater of 1 $\frac{1}{2}$ times the working pressure or 100 psi (689.4 kPa).
5. Each installation must be pressure-tested for leaks in the presence of the code official or the code official's designated representative.
6. Clearances from heat-producing equipment must be in accordance with the applicable code.
7. Hydronic piping systems that utilize a non-potable heat transfer fluid must not be connected to the potable water system except through the use of approved devices such as backflow preventers or double-walled heat exchangers.
8. For jurisdictions enforcing the IPC, for water supply and distribution, heat-fusion joints must be installed in accordance with IPC Section 605.20.1.
9. The products recognized in this listing are under a quality control program with two surveillance inspections per year by ICC-ES.

