

INTERPUMP

FLUID SOLUTIONS 

Powered by I.M.M. Hydraulics

**Premium Adaptors & Tube
Connectors**

2022

HOW TO ORDER

Code: 1700-12-12

Description: BSP Niple – Junction $\frac{3}{4}$ "

Code: 1700-12-12NI

Description: BSP Niple – Junction $\frac{3}{4}$ "

Zinc-Nickel Surface Treated

Code: X1700-12-12

Description: BSP Niple Junction $\frac{3}{4}$ " Stainless Steel (AISI 316L)

Codice: 7430-16SR-1NI

Description: DIN male stud coupling 16 S- G $\frac{1}{2}$
(Form B ISO 1179-4) - BODY ONLY - (ZINC-NICKEL)

Codice: 7430-16SRNI

Description: DIN male stud coupling 16 S- G $\frac{1}{2}$
(Form B ISO 1179-4) - (ZINC-NICKEL)

Note: with nut (cod. 7400) and cutting Ring (cod. 7410)

TRACEABILITY

Product Traceability is guaranteed by a dedicated stamping process developed by I.M.M Hydraulics Spa in order to trace material, supplier and batch number. This is a value-added feature in line with the company total quality management approach.

INTRODUCTION

Hydraulic Systems need adaptors installation to close and have an integrated and finished circuit.

Adaptors are used mainly to:

- Adjust the thread dimensions (by increasing or reducing them);
- Change the thread: connection type change to have an easier flexible hoses connection or rigid pipe installation;
- Adjust tubes end: tube-to-fittings connection, tube – to – tube connection.
- Plug-in the circuit.

Adaptors can have the following thread configuration: metric, BSPP, BSPT, SAE, UN/UNF, NPT/NPTF

Thread	Reference Standard
Metric	ISO 261, ANSI B1.13M
BSPP	BS 2779, ISO 228/1
BSPT	BS21, ISO 7/1
NPT	ANSI B1.21.1
NPTF	SAE J476, ANSI B1.20.3
NPSM	ANSI B1.20.1
UN/UNF	ANSI B1.1

Connection Type and Reference Standard

METRIC ADAPTORS

Usually called as DIN, metric adaptors comply with DIN 2353, DIN 3861 e DIN 3859 - ISO 8434-1 reference std.

Leakage resistance guaranteed by sealing angled faces at 24° , con o senza o-ring (metal-to-metal sealing). Thread type is metric.

cross section typical 24° cone connector with cutting ring

KEY

cross section of typical 24° cone connector with O-Ring seal cone (DKO) end

KEY

Metric adaptors are largely used by OEM in agriculture and industrial field. The related sealing system provides high pressure performance level, high leakage resistance, good high torque value resistance and the possibility to perform repetitive assembly and disassembly provided that O-ring is replaced.

ORFS ADAPTERS

ORFS adaptors comply with ISO 8434-2 and SAE J1453. This connection type is designed to provide the best sealing at the higher pressure. Sealing is guaranteed by the male O-ring compression on the flat female surface.

The mechanical joint is assured by the UN/UNF thread.

Cross section and components of typical O -Ring face seal connector body

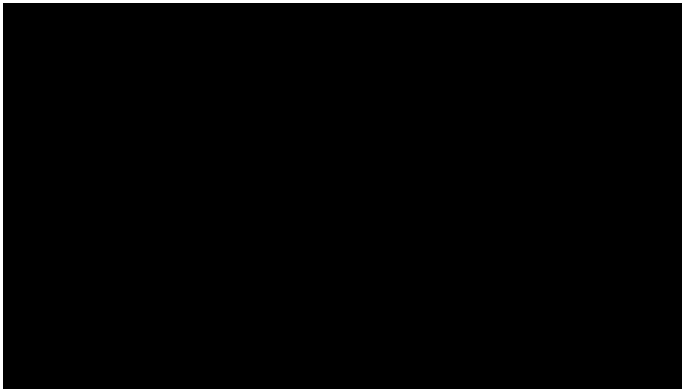
KEY

ORFS adaptors are mainly used in US and UE market and they are widely used by ground movement machines OEM. Sealing system assures excellent performances in high pressure and vibration condition, leakage resistance, good high torque value resistance and provides the possibility to perform repetitive assembly and disassembly if O-Ring replaced.

JIC ADAPTERS

Usually called as JIC these adaptors comply with ISO 8434-2 and SAE J514. Sealing guaranteed by metal-to-metal joint with a flared angle of 37° without components deformation. Thread are straight UN/UNF type.

cross section of typical 37° flared connection



KEY

JIC adaptors are mainly used in US market for industrial field. Sealing type assured good performance at high pressure condition.

BSP ADAPTERS

The related reference standards are BS5200 and ISO 8434-6. On BSPP connection the sealing is guaranteed by metal to metal surface contact with a surface angle of 60°.

On BSPT connection the sealing is guaranteed by the thread and for this reason it is necessary to add a sealing material.

La forma della filettatura ha un semiangolo dei fianchi di 55 gradi.

Sezione di una tipica connessione 60° con O-Ring



KEY

BSP connection is widely used in Europe, Japan and Commonwealth area for industrial applications.

NPT/NPTF ADAPTERS

Adapters NPT/NPTF conform to ANSI B1.21.1 e SAE J476, ANSI B1.20.3. Sono caratterizzati da filettature coniche, con semiangolo dei fianchi di 60 gradi.
In the NPT / NPTF connection, the seal is carried out on the thread with the aid of appropriate sealing materials.
If a 30 ° half-angle is made on the nipple, the seal can be carried out in conjunction with a NPSM swivel female.

The NPT/NPTF connection is mostly used in the USA, where it is mainly used in the industrial sector for the transfer of fluids under pressure.

The sealing system guarantees good performance with medium-high pressures in static conditions, for dynamic applications, especially for sizes greater than 1" it is advisable to use other types of connections.

NPT or NPTF THREAD

break	30° seat
does not seal with NPTF swivel fitting	seal with NPSM swivel fitting

The illustration shows the 30 ° seat on the NPT / NPTF threads necessary for the NPSM swivel fitting to seal.

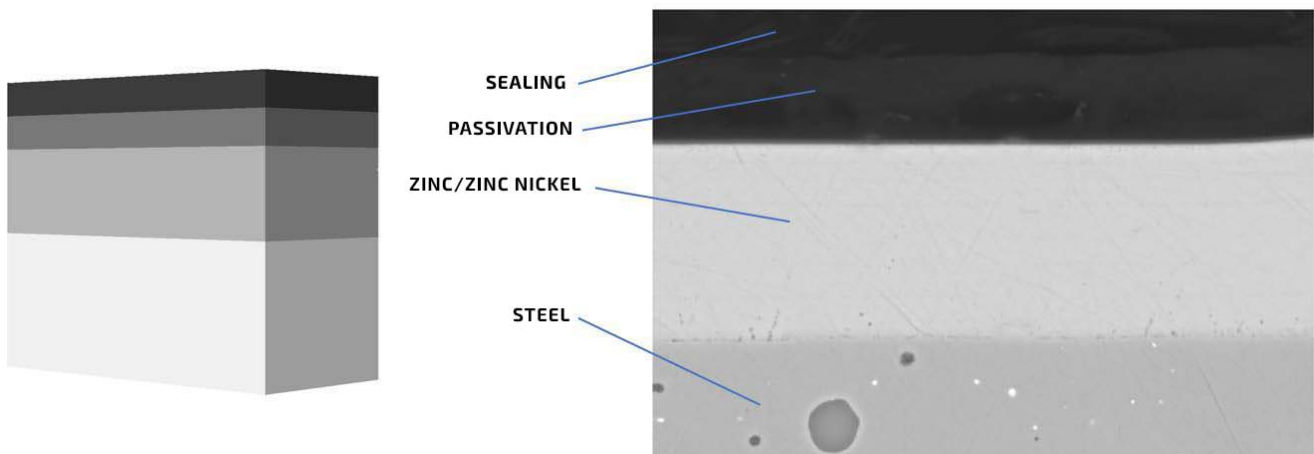
The illustration shows how the NPSM swivel adapters seal onto the corresponding groove in the male NPT thread.

SURFACE TREATMENTS

Interpump Fluid Solutions makes use of its own plants for the realization of surface treatments such as «standard» zinc and nickel zinc, ensuring the high quality and performance standards required by the market.

Our systems ensure a low environmental impact by complying with the most stringent standards in terms of environment and safety.

The hexavalent chromium-free passivation ensures a low environmental impact. In addition to increasing the performance of the product, the sealing is designed to ensure low coefficient of friction values.



The available solutions ensure high reliability in all work environments:

The standard zinc treatment, with a minimum thickness of pure zinc of 8µm and white passivation, ensures a corrosion resistance higher than the market standard.

The appearance is matte metallic.

FINISHING	THICKNESS	MINIMUM RESISTANCE RED RUST
White zinc-plating without Cr VI No Seal	>8	>400 h

The zinc nickel treatment (Zn-Ni alloy coating (Ni 12% -16%, thickness 8-12 microns) has a gray-blue color with slight iridescence.

It is indicated when a high resistance to corrosion is required in severe exposure conditions.

Zinc nickel treatment is offered std for DIN 2353 - ISO 8434-1 adapters

FINISHING	THICKNESS	MINIMUM RESISTANCE RED RUST
Transparent-blue (colorless), passivation based on trivalent chromium (chromium VI free)	>8	>720 h

PORT AND STUD ENDS DIMENSION

Non- Adjustable

Adjustable

Port (Parallel Thread)

Dimensions	[mm]								[degree]
T _H	d ₂	d ₃ wide min.	d ₃ narrow min.	d ₅ +0,1	L ₃ max.	L ₁ +0,4	L ₂ min.	L ₄ min.	Z° +/-1°
M8x1	11,8	17	14	9,1	1	1,6	11,5	10	12
M10x1	13,8	20	16	11,1	1	1,6	11,5	10	12
M12x1,5	16,8	23	19	13,8	1,5	2,4	14	11,5	15
M14x1,5	18,8	25	21	15,8	1,5	2,4	14	11,5	15
M16x1,5	21,8	28	24	17,8	1,5	2,4	15,5	13	15
M18x1,5	23,8	30	26	19,8	2	2,4	17	14,5	15
M22x1,5	26,8	33	29	23,8	2	2,4	18	14,5	15
M27x1,5	31,8	40	34	29,4	2	3,1	22	19	15
M30x2	35,8	44	38	32,4	2	3,1	22	19	15
M33x1,5	40,8	49	43	35,4	2,5	3,1	22	19	15
M42x2	49,8	58	52	44,4	2,5	3,1	22,5	19,5	15

Sealing with O-Ring for non-adjustable and O-ring with washer for adjustable.
For all new designs ISO Technical Committee recommends ISO 6149 connection type.

PORT AND STUD ENDS DIMENSION

Non- Adjustable

Adjustable

Port (Parellel Thread)

Dimensions	[mm]							[degree]
T _H	d ₂	d ₃ min.	d ₅ +/-0,05	L ₃ max.	L ₁ +0,4	L ₂ min.	L ₄ min.	Z° +/-1°
3/8-24 UNF-2A	11,8	19	10,75	1,6	1,9	12	10	12
7/16-20 UNF-2A	13,8	21	12,45	1,6	2,4	14	11,5	12
1/2-20 UNF-2A	16,8	23	14,05	1,6	2,4	14	11,5	12
9/16-18 UNF-2A	16,8	25	15,7	1,6	2,5	15,5	12,7	12
3/4-16 UNF-2A	21,8	30	20,65	2,4	2,5	17,5	14,3	15
7/8-14 UNF-2A	26,8	34	23,9	2,4	2,5	20	16,7	15
1 1/16-12 UN-2A	26,8	41	29,2	2,4	3,3	23	19	15
1 3/16-12 UN-2A	31,8	45	32,4	2,4	3,3	23	19	15
1 5/16-12 UN-2A	40,8	49	35,55	3,2	3,3	23	19	15
1 5/8-12 UN-2A	49,8	58	43,55	3,2	3,3	23	19	15
1 7/8-12 UN-2A	54,8	65	49,9	3,2	3,3	23	19	15

Sealing with O-Ring for non-adjustable and O-ring with washer for adjustable.
 For all new designs ISO Technical Committee recommends ISO 6149 connection type.
 Male stud conforming to ISO 11926-3 and 11926-2 are identical to those conforming to SAE J514 and SAE J1453 respectively.

Metallic Sealing Edge

Sealing Ring

Sealing: Sealing washer DIN 7603
(e.g. copper)

Port (Parallel Thread)

Dimensions	[mm]					
T _{up} / T _{is}	d ₃	d ₄	d _{4 min.}	L _{1 max.}	L _{2 min.}	W
M8 x 1	12	-	13	1	8	0.1
M10 x 1	14	13,9	15	1	8	
M12 x 1,5	17	16,9	18	1,5	12	
M14 x 1,5	19	18,9	20	1,5	12	
M16 x 1,5	21	21,9	23	1,5	12	
M18 x 1,5	23	23,9	25	2	12	
M20 x 1,5	25	25,9	27	2	14	
M22 x 1,5	27	26,9	28	2,5	14	
M26 x 1,5	31	31,9	33	2,5	16	0.2
M27 x 2	32	31,9	33	2,5	16	
M33 x 2	39	39,9	41	2,5	18	
M42 x 2	49	49,9	51	2,5	20	
M48 x 2	55	54,9	56	2,5	22	

Sealing with O-Ring for Type E and with metal-to-metal joint for Type B.

Metallic Sealing Edge

Sealing Ring

Sealing: Sealing washer DIN 7603,
(e.g. copper)

Port (Parallel Thread)

Dimensions	[mm]						
T _h	d ₉	d ₂	d _{4 min.}	d _{4 min. wide}	L _{1 max.}	L _{2 min}	W
G 1/8 A	14	13,9	15	17,2	1	8,5	0,1
G 1/4 A	18	18,9	20	20,7	1,5	12,5	0,1
G 3/8 A	22	21,9	23	24,5	2	12,5	0,1
G 1/2 A	26	26,9	28	29,6	2,5	15	0,1
G 3/4 A	32	31,9	33	36,9	2,5	16,5	0,2
G 1 A	39	39,9	41	46,1	2,5	19	0,2
G 1 1/4 A	49	49,9	51	54	2,5	21,5	0,2
G 1 1/2 A	55	54,9	56	60,5	2,5	22,5	0,2

Sealing with O-Ring for Type E and with metal-to-metal joint for Type B.

Male stud Type G
(non-adjustable with
retaining ring)

Male stud Type H
(adjustable with
retaining ring)

Port (Parallel Thread)

Dimensions	[mm]					
T_h / T_{hs}	$d_{9 \pm 0,1}$	$d_{4 \text{ min. narrow}}$	$d_{4 \text{ min. wide}}$	$L_{1 \text{ max.}}$	$L_{2 \text{ min.}}$	W
G 1/8 A	15	15	17,2	1	8,5	0,1
G 1/4 A	19,8	20	20,7	1,5	12,5	0,1
G 3/8 A	23,5	23	24,5	2	12,5	0,1
G 1/2 A	28,5	28	29,6	2,5	15	0,1
G 3/4 A	34,5	33	36,9	2,5	16,5	0,2
G 1 A	43,5	41	46,1	2,5	19	0,2
G 1 1/4 A	52,5	51	54	2,5	21,5	0,2
G 1 1/2 A	60	56	60,5	2,5	22,5	0,2

Sealing with O-Ring and retaining ring.

non-adjustable male
stud NPT/NPTF
Tapered Thread

Port (Parallel Thread)

Dimensions	[mm]	
$T_{hs} - T_{hp}$	$L_{1\ min}$	$L_{2\ min}$
1/8-27 NPT/F	11,6	6,9
1/4-18 NPT/F	16,4	10,0
3/8-18 NPT/F	17,4	10,3
1/2-14 NPT/F	22,6	13,6
3/4-14 NPT/F	23,1	14,1
1-11 1/2 NPT/F	27,8	16,8
1.1/4"-11 1/2 NPT/F	28,3	17,3
1.1/2-11 1/2 NPT/F	28,3	17,3

Sealing with thread. It is necessary to use a sealing material. Repetitive assembly is not recommended.

It is not recommended to use a tapered male thread in a parallel female thread.

BSPT Tapered Thread

Port (Tapered Thread)

Dimensions	[mm]	
T_{hs}	T_{hp}	L_{min}
R 1/8-28	R 1/8	7,4
R 1/4-19	R 1/4	11,0
R 3/8-19	R 3/8	11,4
R 1/2-14	R 1/2	15,0
R 3/4-14	R 3/4	16,3
R 1-11	R 1	19,0
R 1 1/4-11	R 1 1/4	21,4
R 1 1/2-11	R 1 1/2	21,4

Sealing with thread. Repetitive assembly is not recommended.

Tapered Thread

Port (Parallel Thread)

Dimensions		[mm]	
T_{hs}	T_{hp}	$L_{1\ min}$	$L_{2\ min}$
M8 x 1 t.	M8 x 1	10,0	5,5
M10 x 1 t.	M10 x 1	10,0	5,5
M12 x 1,5 t.	M12 x 1,5	13,5	8,5
M14 x 1,5 t.	M14 x 1,5	13,5	8,5
M16 x 1,5 t.	M16 x 1,5	13,5	8,5
M18 x 1,5 t.	M18 x 1,5	13,5	8,5
M20 x 1,5 t.	M20 x 1,5	15,5	10,5
M22 x 1,5 t.	M22 x 1,5	15,5	10,5

Sealing with thread short. Repetitive assembly is not recommended. Necessary sealing materials.

TUBE SIZE DIFINITION

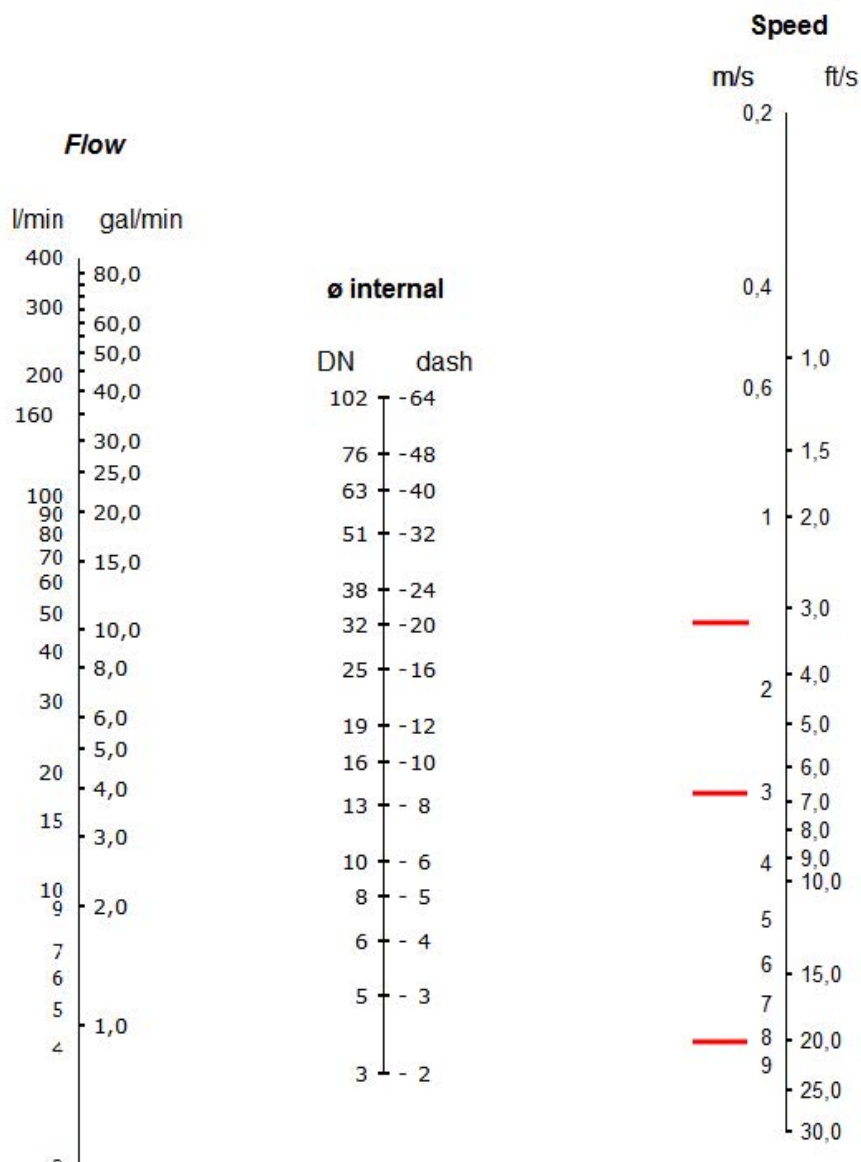
In tube design and definition it is necessary to consider the following aspects:

- Internal Diameter definition;
- Wall thickness definition.

Here below a normogram and DIN 2413 / ISO 10763 pressure reference table are reported.

Recommended line speed:

Pressure lines: 3 - 8 m/s
return line: 1,5 - 3 m/s
Suction lines 0,5 - 1,5 m/s
Pilot lines: max 5 m/s



CALCULATED TUBE WORKING/BURST PRESSURE

Tube OD [mm]	TUBE ID [mm]	Wall thk [mm]	Working pressure calculated [bar] iaw DIN 2413 – Load configuration I (static loads up to 120°C)		Working pressure calculated [bar] iaw DIN 2413 – Load configuration III (dynamic loads up to 120°C)		Burst pressure [bar] iaw ISO 10763	
			Material E235+N	Material E355	Material E235+N	Material E355	Material E235+N	Material E355
6	4,5	0,75	338	491	303	310	1116	1525
6	4	1	450	655	391	400	1573	2149
6	3	1,5	675	983	551	563	2689	3674
6*	2	2	900	1310	692	708	4263	5823
6*	1,5	2,25	1013	1474	757	774	5379	7347
8	6	1	338	491	303	310	1116	1525
8	5	1,5	506	737	433	443	1824	2491
8	4	2	675	983	551	563	2689	3674
8*	3	2,5	844	1228	659	673	3806	5198
10	8	1	270	393	248	253	866	1183
10	7	1,5	405	590	357	365	1384	1890
10	6	2	540	786	458	468	1982	2707
10	5	2,5	675	983	551	563	2689	3674
10*	4	3	810	1179	638	652	3555	4856
12	10	1	225	328	209	214	707	966
12	9	1,5	338	491	303	310	1116	1525
12	8	2	450	655	391	400	1573	2149
12	7	2,5	563	819	474	484	2091	2857
12	6	3	675	983	551	563	2689	3674
12*	5	3,5	823	1180	624	638	3397	4640
12*	4	4	940	1348	692	708	4263	5823
14	12	1	193	281	181	185	598	817
14	11	1,5	289	421	264	270	936	1278
14	10	2	386	561	342	349	1306	1783
14	9	2,5	482	702	415	425	1714	2342
14	8	3	579	842	485	496	2171	2966
14	7	3,5	705	1011	551	563	2689	3674
15	13	1	180	262	170	174	555	758
15	12	1,5	270	393	248	253	866	1183
15	11	2	360	524	321	329	1203	1644
15	10	2,5	450	655	391	400	1573	2149
15	9	3	540	786	458	468	1982	2707
16	14	1	169	246	160	163	518	708
16	13	1,5	253	368	233	239	806	1100
16	12	2	338	491	303	310	1116	1525
16	11	2,5	422	614	370	378	1454	1986
16	10	3	506	737	433	443	1824	2491
16	8	4	705	1011	551	563	2689	3674
18	16	1	150	218	143	146	457	624
18	15	1,5	225	328	209	214	707	966
18	14	2	300	437	273	279	975	1332
18	13	2,5	375	546	333	341	1263	1725
18	12	3	450	655	391	400	1573	2149
18	10	4	627	899	500	511	2281	3115
20	17	1,5	203	295	190	194	631	861
20	16	2	270	393	248	253	866	1183
20	15	2,5	338	491	303	310	1116	1525
20	14	3	405	590	357	365	1384	1890
20	13	3,5	494	708	408	417	1671	2283
20	12	4	564	809	458	468	1982	2707
20	10	5	705	1011	551	563	2689	3674

CALCULATED TUBE WORKING/BURST PRESSURE

Tube OD [mm]	TUBE ID [mm]	Wall thk [mm]	Working pressure calculated [bar] iaw DIN 2413 – Load configuration I (static loads up to 120°C)		Working pressure calculated [bar] iaw DIN 2413 – Load configuration III (dynamic loads up to 120°C)		Burst pressure [bar] iaw ISO 10763	
			Material E235+N	Material E355	Material E235+N	Material E355	Material E235+N	Material E355
22	20	1	123	179	118	121	370	505
22	19	1,5	184	268	173	177	569	777
22	18	2	245	357	227	232	779	1064
22	17	2,5	307	447	278	285	1000	1366
22	16	3	368	536	328	335	1236	1688
22	15	3,5	449	643	376	384	1486	2030
22	14	4	513	735	422	431	1754	2396
25	22	1,5	162	236	154	157	496	678
25	21	2	216	314	201	206	676	924
25	20	2,5	270	393	248	253	866	1183
25	19	3	324	472	292	299	1065	1455
25	18	3,5	395	566	336	343	1275	1741
25	17	4	451	647	378	386	1496	2044
25	16	4,5	508	728	418	428	1732	2365
25	15	5	564	809	458	468	1982	2707
28	25	1,5	145	211	138	141	440	601
28	24	2	193	281	181	185	598	817
28	23	2,5	241	351	223	228	763	1043
28	22	3	289	421	264	270	936	1278
28	21	3,5	353	506	303	310	1116	1525
28	20	4	403	578	342	349	1306	1783
30	26	2	180	262	170	174	555	758
30	25	2,5	225	328	209	214	707	966
30	24	3	270	393	248	253	866	1183
30	23	3,5	329	472	285	291	1031	1408
30	22	4	376	539	321	329	1203	1644
30	20	5	470	674	391	400	1573	2149
30	18	6	564	809	458	468	1982	2707
35	32	1,5	121	173	111	114	348	475
35	31	2	161	231	147	150	471	643
35	30	2,5	201	289	181	185	598	817
35	29	3	242	347	215	220	730	997
35	27	4	322	462	280	286	1007	1375
35	25	5	403	578	342	349	1306	1783
38	34	2	148	213	136	139	432	589
38	33	2,5	186	266	168	171	547	748
38	32	3	223	319	199	203	667	911
38	30	4	297	426	260	265	917	1253
38	28	5	371	532	318	325	1185	1619
38	26	6	445	639	373	382	1472	2011
38	24	7	519	745	427	436	1783	2436
38	22	8	594	851	478	488	2121	2897
42	39	1,5	101	144	93	96	288	393
42	38	2	134	193	123	126	388	530
42	37	2,5	168	241	153	156	492	672
42	36	3	201	289	181	185	598	817
42	34	4	269	385	237	242	820	1120
42	32	5	336	481	290	297		1441

ASSEMBLY INSTRUCTIONS

ISO 8434-1/DIN2353 – Assembly Instructions

1.Preparation of tube

- Cut tube off at a right angle. A maximum angular deviation of 0,5° relative to the tube axis is permissible.

NOTE

Do not use pipe cutters or cutting off wheels as they cause severe butting and angular cuts. Use of a precision cut-off machine or device is recommended.

- Lightly deburr tube ends inside and out (maximum 0.2 x 45°) and clean them.

NOTE

Thin-walled tubes may require supportive inserts. Any deformation or irregularity such as inclined sawed-off tubes or excessively deburred tubes reduce the integrity, life expectancy and the sealing of the connection.

2.Lubrication and orientation

- Lubricate thread and 24° cone of the body and the thread of the nut

- Place nut and cutting ring on the tube with the cutting edge towards the tube end.

NOTA: Ensure that the cutting ring is facing the correct direction to prevent assembly error.

3.Initial Assembly

- Assemble the nut by hand until contact of the body, cutting ring and nut becomes noticeable
- Insert the tube into the connector body so the tube bottoms out on the tube stop. The tube shall touch the tube stop to ensure that the cutting ring bites into the tube correctly.

4. Tightening Pre-Assembly:

- After inserting the tube inside the connector body Tighten the nut with a wrench by hand until the cutting ring stays stopped.
- Tighten the nut with a wrench until cutting ring contact with tube. In this configuration the cutting ring avoids tube rotation.
- Tighten the nut up to 1 turn maximum by holding the tube against rotation

For a more reliable connection use the HF3-DIN machine

5. Check

- Disassemble the tube connection.
- Check penetration of cutting edge. If the connector was assembled correctly a ring of materials distributed equally will be visible and should completely cover the front cutting edge.

-

NOTE

The cutting ring may turn on tube freely but should not be capable of axial displacement

6. Final Assembly

- In the final assembly the nut shall be re-tightened firmly using the same torque as required for initial assembly.
- Hold the connector body firmly with one wrench and turn the nut with another wrench.
- Tighten the nut until resistance to torque is noticeable.
- For all pre-assembly the nut shall be tightened with a $\frac{1}{4}$ further turn once a minimum resistance to torque is noticeable (up to a maximum of $\frac{1}{2}$ turn)
-

8. Minimum length of straight tube end for tube bends

- The length of undeformed straight tube ($2 \times h$) shall be at least twice the length of the nut (h).

NOTE

The straight tube end may not exceed any deviation of roundness or straightness which exceeds the dimensional tolerances of the tube.

ADJUSTABLE FITTINGS WITHOUT REAITINING RING

Assembly Instructions

ISO 6149, ISO 11926

1. Assembly

- Pre-assembly with locknut, washer and o-ring.
- Lubricate the o-ring.
- Tighten the locknut until the thread groove has been discovered.
- Tighten the fittings into the port;
- Check contact between washer and port surface.

2. Adjustment

- Loosen the fittings up to 1 turn maximum until the right position has been reached.

4. Final Assembly

- Hold the fitting with a wrench and with a second wrench tighten the locknut.

DKO FITTINGS

Assembly Instructions

ISO 8434-1

1. Assembly

- Check the O-ring for any sign of damage and for the correct position in the groove.
- Lubricate lightly the O-Ring, the cone and the thread.
- Keep the taper aligned and insert it into the cone by pressing it firmly.
- Tighten manually the union nut.
- Turn the nut about $\frac{1}{4}$ - $\frac{1}{3}$ of turn to complete the installation.

NOTE

- Assembly and disassembly shall be performed by turning the union nut and not the counter connection fitting.

WELD ON NIPPLE

Assembly Instructions

ISO 8434-1

1. General notes

- Reference standard ISO 8434-1.
- The final user is responsible for welding procedure.
- Reference tube length are shown below:

Series	OD Tube [mm]	C1 [mm] [+/1 mm]
L	6	32
	8	32
	10	33,5
	12	33,5
	15	35
	18	37
	22	39,5
	28	42,5
	35	49,5
	42	50
S	6	32
	8	32
	10	33,5
	12	33,5
	14	37
	16	40,5
	20	47
	25	53,5
	30	57,5
	38	64,5

2. Assembly

- Check the O-ring for any sign of damage and for the correct position in the groove.
- Lubricate lightly the O-Ring, the cone and the thread.
- Keep the taper aligned and insert it into the cone by pressing it firmly.
- Tighten manually the union nut.
- Turn the nut about $\frac{1}{4}$ to complete the installation.

NOTE

- Assembly and disassembly shall be performed by turning the union nut and not the counter connection fitting.

Tube OD		Flaring D max [mm]	Flaring D2 min. [mm]	Max. tube wall thickness Z [mm]	Length decrease L [mm]
[mm]	[inch]				
6	1/4	9,7	8,0	1,5	2,5
8	5/16	11,3	10,0	1,5	2,5
10	3/8	12,7	11,7	1,5	2,5
12	1/2	17,3	14,7	2,0	3,0
15	-	20,2	16,5	2,0	3,0
16	5/8	20,2	16,5	2,5	3,0
20	3/4	24,6	21,0	2,5	3,5
25	1	31,0	25,1	3,0	4,0
30	-	38,9	31,8	3,0	5,0
35	1 1/4'	38,9	31,8	3,0	5,0
38	1 1/2'	42,3	38,5	3,0	5,0

L [mm]	
B	Bx
22	19
25	-
27	24
30	26
34	30
39	34
48	-
48	-
59	-
64	-
64	-
70	-

PIPE DIMENSIONS FOR ORFS FITTINGS

Tube OD		D min [mm]	D max. [mm]	L min [mm]
[mm]	[inch]			
6	1/4	12,0	12,7	38,0
8	5/16	15,0	15,7	38,0
10	3/8	15,0	15,7	38,0
12	1/2	18,0	18,9	38,0
14	-	22,5	23,4	48,0
16	5/8	22,5	23,4	48,0
18	-	26,5	27,8	48,0
20	3/4	26,5	27,8	48,0
25	1	32,5	34,2	48,0
30	-	39,5	40,5	
35	1 1/4'	39,5	40,5	
38	1 1/2'	47,5	48,5	

ASSEMBLY DESIGN AND INSTALLATION

The following factors shall be considered when dimensioning a piping system and calculating tube length for an assembly length:

- Minimum length of straight and elbow parts;
- Additional dimensions related to couplings;
- Additional tube sections (flaring, bend radii, elbows, straight parts).

As guideline in piping system design it is recommended to consider an extra length for tubes ends in order to be able to adjust the assemblies before pre-assembly and final assembly.

As reference ISO 8434-1 dimension inside coupling is reported:

Tube OD	T5 [mm]
L 6	7
L 8	7
L 10	7
L 12	7
L15	7
L 18	7,5
L 22	7,5
L 28	7,5
L 35	10,5
L 42	11
S 6	7
S 8	7
S 10	7,5
S12	7,5
S 14	8
S16	8,5
S 20	10,5
S 25	12
S 30	13,5
S 38	16

RECOMMENDATIONS

Hydraulic Systems efficiency shall be guaranteed by tubes and fittings correct design and installation.

It is necessary to avoid any kind of leakage or failure during operation.

After tubes dimensioning and lines definition here below recommendations to follow during installation and routings:

Joints accessibility: it is suggested to keep tubes away from components requiring periodical inspection and to have an easy access to connection points where inspections are required.

Routing: It is recommended to have a routing providing an easy trouble shooting for maintenance and repair actions. Right angled, parallel and clear lines are the recommended configuration.

Fixing: Do not use tubes to support external loads. Tube shall be fixed properly with proper tube clamps.

Length: it is recommended to avoid short tubes that can be affected by fatigue failures. If possible, swivel connectors are the preferable solutions.

Installation: excessive stresses on joints have to be avoided.

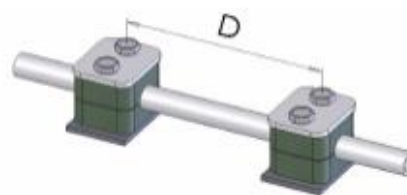
Clamps – Installation instructions

WELDING PLATE MOUNTING

RAIL MOUNTING

Ø esterno tubo - Ø tube (mm)	D (mt)
from 6 to 12,7	0,9
from 15 to 22	1,2
from 23 to 28	1,5
from 30 to 38,1	2
from 40 to 48,3	2,5
from 50 to 57	3
from 60 to 70	3,4
from 76,1 to 88,9	3,7
from 101,6 to 108	4
from 114,3 to 133	4,3
from 139,7 to 165,1	5
from 168,3 to 324	5,5

Distanza suggerita tra collari dello stesso tipo



Si consiglia di posizionare le staffe prima e dopo una curva a 90°.



ELASTOMERIC SEAL

O-Ring normally provided is made in NBR 90 Shore A hardness.

NBR O-Ring is suitable for a temperature range within -35 °C to +100 °C / -31 °F to +212 °F.

In case of aggressive environment FKM (Viton[®] - temperature range within 25 °C to +200 °C / -13 °F to +392 °F) or EPDM O-Ring is available.

About storage it is recommended to follow ISO 2230/ DIN 7716 "Rubber products — Guidelines for storage".

- Store seals in a dry place, at temperatures not exceeding +25 °C / +77 °F.
- Protect seals from sunlight, ozone, strong artificial lightning and heat sources during storage.

THE PRINCIPLES OF CORRECT STORAGE

The O-Rings must be stored in such a way as to avoid external damage that can occur in the form of damage to the surface such as deformation due to traction, pressure or bending or from packaging components (e.g. staples).

The O-Rings must also be stored in a cool and dry environment, preferably at temperatures between 15 °C and 25 °C with humidity below 65%.

The O-rings must not be exposed for too long to sunlights and artificial light with a high UV content and must be kept away from ozone sources.

The storage rooms must not contain ozone which can be produced by devices such as electric motors, high voltage devices and must also not contain combustion and organic gases.

Point of contacts between rubber products of different components must be avoided. As well as contact between chemicals or hazardous materials (eg copper, manganese) are to be avoided.

The best solution is to keep the O-Rings in airtight packaging, especially plastic bags protected from UV rays.

The O-Rings retain their properties only if stored correctly.

If the above recommendations are respected, the gasket can be stored without losing their characteristics for a period of 5 years for NBR and 10 years for FKM.

Unsaturated elastomers such as Nitrile Rubber (NBR) can have a much shorter age under improper storage conditions than for example saturated elastomers, Fluoroelastomers (FKM).

To ensure their sealing function, storage, cleaning and maintenance must comply with the directives of DIN 7716.

The result is a longer functional life and avoid premature aging, hardening or embrittlement.

FLUID COMPATIBILITY TABLE

Legend				Materials Guide	
excellent			↑	NBR	Nitrile rubber
good (OK for static seals)			↗	EPDM	Ethylene-Propylene
→		FKM	Fluoroelastomer (Viton)	questionable (sometimes OK for static seals)	
↓				rare	
NBR	FKM	EPDM		Fluids	
↑	↑	↗		Sea water (salty)	
↑	↑	↑		Drinking water	
↗	↑	↑		Air 0-90 °C	
↓	↑	↓		Air 150-200 °C	
↓	→	↓		Air 200-260 °C	
→	↑	↗		Air 90-150 °C	
↑	↑	↓		ASTM oil, n. 1	
↑	↑	↓		ASTM oil, n. 2	
↑	↑	↓		ASTM oil, n. 3	
↗	↑	↓		ASTM oil, n. 4	
↑	↑	↓		ASTM oil, n. 5	
↑	↑	↑		Nitrogen	
↓	↑	↓		Benzene	
↑	↑	↓		Kerosene (similar to RP-1 e JP-1)	
→	→	↑		Ethanol	
↓	↓	→		Aether	
→	↓	↑		Brake Fluid DOT3 (glycol type)	
↗	↑	↓		Biodegradable hydraulic fluid HEES (Synthetic ester base)	
↗	↑	↓		HETG Biodegradable Hydraulic Fluid (Triglycerides)	
e) ↗	↓	↓		Biodegradable hydraulic fluid HEPG (Polyalkyleneglycol base)	
↗	↑	↓		Biodegradable hydraulic fluid HEPR (Other Base Liquid - primarily Polyalphaolefins)	
↑	↑	↓		Natural gas	
↑	↑	↓		Gas oil	
↑	↑	↑		Ethylene glycol	
→	↓	↑		Car brake fluid	
↑	↑	↓		Methane	
↗	↓	↑		Methanol	
↗	↑	↓		Hydraulic oils (synthetic base)	
↑	↑	↓		Lubricating oils (petroleum based)	
	↑			Lubricating oils (synthetic based)	
↗	↑	↓		Lubricating oils (raw and refined)	
↑	↑	↓		Mineral oils	
↑	↑	↓		Motor oils	
↑	↑	↓		Crude petroleum oil	
↑	↑	↓		Hydraulic oil (petroleum based, industrial)	
↑	↑	↓		Turbine oil	
↑	↑	↑		Silicone oils	
↓	↓	↑		Steam below 200 °C	
↓	↓	→		Steam, 200-260 °C	

The table of compatible fluids cited above refers to literature data; for more information contact our technical department. For adapters and pressure fittings that have O-Rings in contact with the fluid, it is necessary to take into consideration the chemical compatibility with the passing fluid that will be used.

REPLACEMENT OF THE O-RING

To replace the O-Ring the following steps must be acquainted.

- Check the elastomers before assembly and verify that a) they are not damaged on the surface b) deformed c) they are not hardened d) that they have not lost their elasticity.
- Use assembly greases or oils (compatible with elastomers)
- Avoid twisting the O-Ring by winding
- There must be no acute / cutting passages, machining grooves, threads or holes
- The presence of dirt or residues in the O-Ring installation site is not allowed

ASSEMBLY TORQUE

Nut on Pipe

OD	T _h Metric Light Series (L)	N/m 0 +10%
6	M12x1,5	20
8	M14x1,5	30
10	M16x1,5	40
12	M18x1,5	50
15	M22x1,5	70
18	M26x1,5	90
22	M30x2	120
28	M36x2	160
35	M45x2	250
42	M52x2	380

OD	T _h Metric Heavy Series (S)	N/m 0 +10%
6	M14x1,5	25
8	M16x1,5	40
10	M18x1,5	50
12	M20x1,5	60
14	M22x1,5	75
16	M24x1,5	85
20	M30x2	140
25	M36x2	190
30	M42x2	270
38	M52x2	400

Swivel Fitting

T _h Metric Light Series (L)	N/m 0 +10%
M12x1,5	20
M14x1,5	30
M16x1,5	40
M18x1,5	50
M22x1,5	70
M26x1,5	90
M30x2	120
M36x2	160
M45x2	250
M52x2	380

T _h Metric Heavy Series (S)	N/m 0 +10%
M14x1,5	25
M16x1,5	40
M18x1,5	50
M20x1,5	60
M22x1,5	75
M24x1,5	85
M30x2	140
M36x2	190
M42x2	270
M52x2	400

ASSEMBLY TORQUE

Nut on Pipe

OD	JIC	N/m Min - Max
6	7/16" - 20	13 - 15
8	1/2" - 20	17 - 24
10	9/16" - 18	24 - 31
12	3/4" - 16	45 - 50
14÷16	7/8" - 14	65 - 70
18 - 20	1.1/16" - 12	90 - 95
25	1.5/16" - 12	120 - 140
30 - 32	1.5/8" - 12	170 - 185
38	1.7/8" - 12	210 - 230

Swivel Fitting

OD	JIC	N/m Max
6	7/16" - 20	15
8	1/2" - 20	25
10	9/16" - 18	31
12	3/4" - 16	52
14÷16	7/8" - 14	72
18 - 20	1.1/16" - 12	100
25	1.5/16" - 12	145
30 - 32	1.5/8" - 12	190
38	1.7/8" - 12	240

ASSEMBLY TORQUE

Nut on Pipe

OD	BSP	N/m 0 +10%
6	1/8"	10
8	1/4"	20
10	3/8"	35
12	1/2"	60
16	5/8"	70
20	3/4"	115
25	1"	140
30	1 1/4"	210
38	1 1/2"	290

Swivel Fitting

BSP	N/m 0 +10%
1/8"	13
1/4"	25
3/8"	45
1/2"	75
5/8"	85
3/4"	130
1"	160
1 1/4"	250
1 1/2"	330

ASSEMBLY TORQUE

Nut on Pipe

OD	T _h ORFS	N/m (0 +10 %)
6	9/16" - 18	25
8-10	11/16" - 16	40
12	13/16" - 16	55
14÷16	1" - 14	60
18-20	1.3/16" - 12	90
25	1.7/16" - 12	125
30-32	1.11/16" - 12	170
38	2" - 12	200

Swivel Fitting

OD	T _h ORFS	N/m (0 +10 %)
6	9/16" - 18	28
8-10	11/16" - 16	45
12	13/16" - 16	60
14÷16	1" - 14	65
18-20	1.3/16" - 12	95
25	1.7/16" - 12	130
30-32	1.11/16" - 12	180
38	2" - 12	215

PORT END ASSEMBLY

Adjustable Non- Adjustable Fitting

ISO 11926 Non Adjustable			
Heavy Duty (S Series) ISO 11926-2		Light Duty (L Series) ISO 11926-3	
Thread Size UN / UNF	Torque N m (+10 % -0)	Thread Size UN / UNF	Torque N m (+10 % -0)
3/8-24	10	3/8-24	10
7/16-20	20	7/16-20	18
1/2-20	25	1/2-20	25
9/16-18	35	9/16-18	30
3/4-16	70	3/4-16	60
7/8-14	100	7/8-14	95
1 1/16-12	170	1 1/16-12	125
1 3/16-12	215	1 3/16-12	150
1 5/16-12	270	1 5/16-12	200
1 5/8-12	285	1 5/8-12	210
1 7/8-12	370	1 7/8-12	300

ISO 11926 Adjustable			
Heavy Duty (S Series) ISO 11926-2		Light Duty (L Series) ISO 11926-3	
Thread Size UN / UNF	Torque N m (+10 % -0)	Thread Size UN / UNF	Torque N m (+10 % -0)
3/8-24	10	3/8-24	10
7/16-20	20	7/16-20	18
1/2-20	25	1/2-20	25
9/16-18	35	9/16-18	30
3/4-16	70	3/4-16	60
7/8-14	100	7/8-14	95
1 1/16-12	170	1 1/16-12	125
1 3/16-12	215	1 3/16-12	150
1 5/16-12	270	1 5/16-12	200
1 5/8-12	285	1 5/8-12	210
1 7/8-12	370	1 7/8-12	300

PORT END ASSEMBLY

ISO 1179					
	Type E ISO 1179-2			Type B ISO 1179-4	
Series	BSPP Thread G Size	Torque N m (0 +10 %)	Series	BSPP Thread G Size	Torque N m (0 +10 %)
L	1/8	20	LL	1/8	15
	1/4	50	L	1/8	20
	3/8	80		1/4	40
	1/2	100		3/8	80
	3/4	200		1/2	150
	1	380		3/4	200
	1 1/4	500		1	380
	1 1/2	600		1 1/4	600
S	1/4	60	S	1 1/2	700
	3/8	90		1/4	60
	1/2	130		3/8	100
	3/4	200		1/2	170
	1	380		3/4	320
	1 1/4	500		1	380
	1 1/2	600		1 1/4	600
	2	650		1 1/2	800

ISO 1179				
	ISO 1179-3 Type H Adjustable		ISO 1179-3 Type G Non Adjustable	
Series	BSPP Thread H Size	Torque N m (0 +10 %)	BSPP Thread G Size	Torque N m (0 +10 %)
L	1/8	20	1/8	25
	1/4	50	1/4	50
	3/8	80	3/8	80
	1/2	100	1/2	105
	3/4	200	3/4	220
	1	370	1	370
	1 1/4	500	1 1/4	500
	1 1/2	600	1 1/2	600

PORT END ASSEMBLY

	Type E ISO 9974-2			Type B ISO 9974-3		
Series	BSPP Thread G Size	Torque N m (0 +10 %)	Series	Thread M Size	Torque N m (+10 % -0)	
L	M10 x 1	20	LL	M8 x 1	10	
	M12 x 1,5	30		M10 x1	15	
	M14 x 1,5	50	L	M10 x1	20	
	M16 x 1,5	60		M12 x 1,5	30	
	M18 x 1,5	80		M14 x 1,5	50	
	M22 x 1,5	140		M16 x 1,5	70	
	M26 x 1,5	200		M18 x 1,5	90	
	M33 x 2	380		M22 x 1,5	150	
	M42 x 2	500		M26 x 1,5	210	
	M48 x 2	600		M33 x2	380	
S	M12 x 1,5	45		S	M42 x 2	550
	M14 x 1,5	60			M48 x2	700
	M16 x 1,5	80	M12 x1,5		45	
	M18 x 1,5	100	M14 x1,5		60	
	M20 x 1,5	140	M16 x1,5		90	
	M22 x 1,5	150	M18 x 1,5		120	
	M27 x 2	200	M20 x 1,5		170	
	M33 x 2	380	M22 x1,5		190	
	M42 x 2	500	M27 x 2		320	
	M48 x 2	600	M33 x 2		450	
			M42 x 2	600		
			M48 x2	800		

PORT END ASSEMBLY

	Type A DIN 3852-1	
Series	Thread M Size	Torque N m (+10 % -0)
L	M10 x 1	10
	M12 x 1,5	20
	M14 x 1,5	35
	M16 x 1,5	45
	M18 x 1,5	55
	M22 x 1,5	65
	M26 x 1,5	90
	M33 x 2	150
	M42 x 2	240
	M48 x 2	290
S	M12 x 1,5	20
	M14 x 1,5	35
	M16 x 1,5	45
	M18 x 1,5	55
	M20 x 1,5	60
	M22 x 1,5	65
	M27 x 2	90
	M33 x 2	150
	M42 x 2	240
	M48 x 2	290

	ISO 6149	
	ISO 6149-2 / -3	
Series	Thread M Size	Torque N m (0 +10 %)
L	M8 x 1	8
	M10 x 1	15
	M12 x 1,5	25
	M14 x 1,5	35
	M16 x 1,5	40
	M18 x 1,5	45
	M22 x 1,5	60
	M27 x 2	100
	M30 x 2	130
	M33 x 2	160
	M42 x2	210
	M48 x 2	260
	M60 x 2	
S	M8 x 1	10
	M10 x 1	20
	M12 x 1,5	35
	M14 x 1,5	45
	M16 x 1,5	55
	M18 x 1,5	70
	M22 x 1,5	100
	M27 x 2	170
	M30 x 2	215
	M33 x 2	310
	M42 x2	330
	M48 x 2	420
	M60 x 2	500

Thread Dimensions

Type	thread	dash	male (mm)		female (mm)	
		size	max	min	max	min
BSP	1/8-28	02	9,7	9,5	8,8	8,6
Metric	M10x1	10	9,9	9,8	9,1	8,9
UNF	7/16-20	04	11,0	10,9	10,0	9,7
Metric	M12x1,5	12	11,9	11,7	10,6	10,4
UNF	1/2-20	05	12,6	12,5	11,6	11,3
BSP	1/4-19	04	13,1	12,9	11,8	11,4
Metric	M14x1,5	14	13,9	13,7	12,6	12,4
UNF	9/16-18	06	14,2	14,0	13,0	12,8
UNF	5/8-18	07	15,8	15,6	14,6	14,4
Metric	M16x1,5	16	15,9	15,7	14,6	14,4
BSP	3/8-19	06	16,6	16,4	15,3	15,0
UN	11/16-16	09	17,4	17,2	16,1	15,7
Metric	M18x1,5	18	17,9	17,7	16,6	16,4
UNF	3/4-16	08	19,0	18,8	17,6	17,3
Metric	M20x1,5	20	19,9	17,7	18,6	18,4
UN	13/16-16	11	20,5	20,4	19,2	18,9
BSP	1/2-14	08	20,9	20,7	19,1	18,6
Metric	M22x1,5	22	21,9	21,7	20,6	20,4
UNF	7/8-14	10	22,1	21,9	20,6	20,3
BSP	5/8-14	10	22,9	22,6	21,1	20,6
UNS	1-14	13	25,3	25,1	23,8	23,4
Metric	M26x1,5	26	25,9	25,7	24,6	24,4
BSP	3/4-14	12	26,4	26,2	24,6	24,1
UN	1.1/16-12	12	26,9	26,7	25,1	24,7
Metric	M30x1,5	30	29,9	29,7	28,6	28,4
Metric	M30x2	30	29,9	29,7	28,2	27,8
UN	1.3/16-12	14	30,1	29,8	28,3	27,9
UN	1.5/16-12	16	33,2	33,0	31,4	31,0
BSP	1-11	16	33,2	32,9	30,9	30,3
Metric	M36x2	36	35,9	35,7	34,2	33,8
UN	1.7/16-12	15	36,4	36,2	34,6	34,2
Metric	M38x1,5	38	37,9	37,7	36,6	36,4
UN	1.5/8-12	20	41,2	40,9	39,4	39,0
BSP	1.1/4-11	20	41,9	41,6	39,5	39,0
Metric	M42x2	42	41,9	41,7	40,2	39,8
UN	1.11/16-12	21	42,8	42,5	41,0	40,6
Metric	M45x1,5	45	44,9	44,7	43,6	43,4
Metric	M45x2	45	44,9	44,7	43,2	42,8
UN	1.7/8-12	24	47,5	47,3	48,7	45,3
BSP	1.1/2-11	24	47,8	47,4	45,4	44,8
UN	2-12	32	50,7	50,5	48,9	48,5
Metric	M52x2	52	51,9	51,7	50,2	49,8
BSP	2-11	32	59,6	59,3	57,2	56,7
UN	2.1/2-12	32	63,4	63,2	61,6	61,2

Reference construction standard

Description	Standards
Gas / BSP	BS 5200 ; ISO 8434-6 ;
Metric 24°	DIN 3861; DIN 3865 ; ISO 8434-1 ; ISO 8434-4 ;
Metric 60°	DIN 7631; DIN 3863
ORFS	SAE J1453 ; ISO 8434-3 ;
NPT / NPTF	SAE J514
Jic 37°	SAE J514 ; ISO 8434-2 ;

Conversion unit

unit	da	a	FRH©
	from	to	
lenght	m metro meters	ft foot	3.281
lenght	mm millimetro millimeters	n inch	0.03934
area	m² metro quadro square meter	in² square inch	1550
volume	l litro liters	gal gallon (UK)	0.264
mass	kg kilogrammo kilogramme	lb pound	2.205
torque	N-m newton/metro newton/meters	lb/ft pound/foot	0.7374
speed	m/s metro/secon-do meters/second	ft/s feet per second	3.281
SRUWDWDÀRZ-UDWH	l/min litro per minuto/liters per minute	gal/min gallon per minute	0.264
pressure	bar (105N/m²)	psi pound/square inch	14.503
temperature	C° celsius	°F fahrenheit	°C(9/5)+32

METRIC TO PSI			
1 kPa = 0.145 psi			
bar	Mpa	kPa	psi
40	4	4000	580
50	5	5000	725
60	6	6000	870
70	7	7000	1015
80	8	8000	1160
90	9	9000	1305
100	10	10000	1450
200	20	20000	2900
300	30	30000	4350
400	40	40000	5800
500	50	50000	7250
600	60	60000	8700
700	70	70000	10150
800	80	80000	11600
900	90	90000	13050
1000	100	100000	14500
2000	200	200000	29000
3000	300	300000	43500

PSI TO METRIC			
1 kPa = 0.145 psi			
bar	Mpa	kPa	psi
40	4	4000	580
50	5	5000	725
60	6	6000	870
70	7	7000	1015
80	8	8000	1160
90	9	9000	1305
100	10	10000	1450
200	20	20000	2900
300	30	30000	4350
400	40	40000	5800
500	50	50000	7250
600	60	60000	8700
700	70	70000	10150
800	80	80000	11600
900	90	90000	13050
1000	100	100000	14500
2000	200	200000	29000
3000	300	300000	43500

STANDARD	Max Working Pressure of main connections (design factor 4:1)						
ISO 8434-6		Thread Size	1/8	1/4		3/8	1/2
	BSP 60° cone with o-ring	MAX WP		400		400	350
	BSP 60° cone without o-ring	MAX WP	350	350		350	315
ISO 8434-2	37° Flared JIC	Thread size		7/16-20	1/2-20	9/16-18	3/4-16
		MAX WP		350	350	350	310
ISO 8434-3	O-ring face seal (ORFS)	Thread size		9/16-18	5/8-18	11/16-16	13/16-16
		MAX WP		630	630	630	630
ISO 8434-1	24° cone light series	Thread size	M12X1.5 (6L)	M14X1.5 (8L)	M16X1.5 (10L)	M18X1.5 (12L)	M22X1.5 (15L)
		MAX WP	415	400	350	330	275
	24° cone heavy series	Thread size	M16X1.5(8S)	M18X1.5 (10S)	M20X15 (12S)	M22X1.5 (14S)	M24X1.5 (16S)
		MAX WP	630	630	630	630	420
SAE J514	NPTF (dry seal pipe)	Thread size	1/8	1/4		3/8	1/2
		MAX WP	345	275		275	240
JIS B 8363	BSP 60° inverted cone (Toyota)	Thread size		1/4		3/8	1/2
		MAX WP		345		345	345
	BSP 60° inverted cone (Koma-tsu)	Thread size		M14X1.5	M16X1.5	M18X1.5	M22X1.5
		MAX WP		345	345	345	345

STANDARD	Max Working Pressure of main connections (design factor 4:1)						
		Thread Size	3/4	1	1.1/4	1.1/2	1/2
	ISO 8434-6	BSP 60° cone with o-ring	MAX WP	315	250	200	160
	BSP 60° cone without o-ring	MAX WP	250	200	160	125	315
ISO 8434-2	37° Flared JIC	Thread size	1.1/16-12	1.5/16-12	1.5/8-12	1.7/8-12	3/4-16
		MAX WP	240	210	170	140	310
ISO 8434-3	O-ring face seal (ORFS)	Thread size	1.3/16-12	1.7/16-12	1.11/16-12	2-12	13/16-16
		MAX WP	400	400	250	250	630
	24° cone light series	Thread size	M30X2 (22L)	M36X2 (28L)	M45X2 (35L)	M52X2 (42L)	M22X1.5 (15L)
		ISO 8434-1	MAX WP	215	165	125	100
	24° cone heavy series	Thread size	M36X2 (25S)	M42X2 (30S)	M52X2 (38S)		M24X1.5 (16S)
		MAX WP	420	420	420		420
SAE J514	NPTF (dry seal pipe)	Thread size	3/4	1	1.1/4	1.1/2	1/2
		MAX WP	210	170	150	140	240
	BSP 60° inverted cone (Toyota)	Thread size	3/4	1	1.1/4	1.1/2	1/2
		JIS B 8363	MAX WP	275	205	170	105
	BSP 60° inverted cone (Ko-matsu)	Thread size	M30x1.5	M33X1.5	M36X1.5	M42X1.5	M22X1.5
		MAX WP	280	205	170	105	345

REFERENCE STANDARD

ISO 8434-1 / -2 / -3 / -6
ISO 1179-1 / -2 / -3 / -4
ISO 6149-1 / -2 / -3 / -4
ISO 9974-1/ -2/ -3 / -4
ISO 11926-1 / -2 / -3
ISO 2230
DIN 3852-1/-2
DIN 2353
SAE J514
SAE J476
SAE J516
SAE J1926
ISO 261,
ISO 228/1
ISO 7/1
BS21
BS 2779
ANSI B1.20.3
ANSI B1.20.1
ANSI B1.1
ANSI B1.13M
ANSI B1.21.1



BSP

	1700	1800	R605	2000
	Union 6	Male-Male Reducing 7	Male-Female Reducing 8	Male-Female Union 9
2010	2020	A108	A107	4520
Male-Female Reducing 10	Union 11	Bulkhead Union 12	Bulkhead locknut 13	90° Elbow Union 14
4530	4730	4900		4910
45° Elbow Union 15	Union Tee 16	Union Cross 17		Union Cross 18
	4700	4710	4800	4810
	Run Tee Swivel Connector 19	Branch Tee Swivel Connector 20	Run Tee Swivel Connector 21	Branch Tee Swivel Connector 22
4720	2350	4500	4510	3220
Union Tee 23	Swivel Connector 24	90° Swivel Elbow 25	45° Swivel Elbow 26	90° Comp.Swivel elbow 27

Dimensions and general characteristics may be changed at any time, data contained here in are only for information purpose only and it does not enlarge, amend or imply any warranty other than provided by us with the product. Any use of the product not in conformance with our instructions may be dangerous.

	2550	2650	2450	4550
	90° Welded Swivel Elbow	45° Swivel Elbow	Swivel Connector	90° Swivel Elbow
	29	30	31	32
2750	2850		4570	
90° Welded Swivel Elbow	45° Welded Swivel Elbow		90° Elbow Union	
33	34		35	
A105		A608	A604	A605
Union		Swivel Plug	Female Plug	Male Plug
37		38	39	40
	MG	220C		
	Male End	Male End		
	41			

4600

90° Swivel Elbow

49

4610

45° Swivel Elbow

50



1875

Male Connector

51

2365

Swivel Connector

52

4870

Branch Tee Connector

53

4670

90° Elbow Connector

54

4680

45° Elbow
Connector

55

4650

90° Swivel Elbow

56



1700E

Male Connector(ED)

57

3900

Adjustable 90° Elbow

58

3255

Adjustable 90° Elbow

59

3950

Adjustable 45° Elbow

60

3600

Adjustable Run Tee

61

3605

Adjustable Branch Tee

62



1805

Male Connector

63

3510

Male Connector

64

3910

Adjustable 90° Elbow

65

3410

Adjustable 45° Elbow

66

3610

Adjustable Run Tee

67

3615

Adjustable Branch Tee

68



3520	3920	3420	3620	3625
				
Male Connector	Adjustable 90° Elbow	Adjustable 45° Elbow	Adjustable Run Tee	Adjustable Branch Tee
69	70	71	72	73
	1550	1560	1450	
	BSP Threaded	BSP Threaded	Weldable BSP	
	74	75	76	
1860	4626	4625		
Male Union	90° Elbow Union	90° Elbow F BSPP		
77	78	79		

1700

Male stud connector BSP
(ISO 8434-6)

S

Part number	Dimensions						Weight kg/unit
	Ø						
	tube mm	tube inch	F	L	L2	CH1	
1700-02-02	6	1/4"	G 1/8	24.0	8.0	14	0.015
1700-04-04	8	5/16"	G 1/4	32.0	11.0	19	0.032
1700-06-06	10	3/8"	G 3/8	35.5	12.0	22	0.051
1700-08-08	12	1/2"	G 1/2	41.5	14.0	27	0.089
1700-10-10	16	5/8"	G 5/8	46.0	16.0	30	0.115
1700-12-12	20	3/4"	G 3/4	47.0	16.0	32	0.136
1700-16-16	25	1"	G 1	53.0	19.0	41	0.230
1700-20-20	32	1.1/4"	G 1 1/4	57.0	20.0	50	0.365
1700-24-24	38	1.1/2"	G 1 1/2	62.0	22.0	55	0.456
1700-32-32	50	2"	G 2	71.0	25.0	70	0.783

Reducing BSP Niple (ISO 8434-6)

S

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L2	L3	CH1	
1800-04-02	8-6	5/16"-1/4"	G 1/4	G 1/8	28.5	11.0	8	19	0.028
1800-06-02	10-6	3/8"-1/4"	G 3/8	G 1/8	31.0	12.0	8	22	0.041
1800-06-04	10-8	3/8"-5/16"	G 3/8	G 1/4	34.0	12.0	11	22	0.045
1800-08-04	12-8	1/2"-5/16"	G 1/2	G 1/4	37.5	14.0	11	27	0.072
1800-08-06	12-10	1/2"-3/8"	G 1/2	G 3/8	39.5	14.0	12	27	0.080
1800-10-08	16-12	5/8"-1/2"	G 5/8	G 1/2	41.0	16.0	14	30	0.097
1800-12-04	20-8	3/4"-5/16"	G 3/4	G 1/4	40.0	16.0	11	32	0.105
1800-12-06	20-10	3/4"-3/8"	G 3/4	G 3/8	43.0	16.0	12	32	0.118
1800-12-08	20-12	3/4"-1/2"	G 3/4	G 1/2	45.0	16.0	14	32	0.134
1800-12-10	20-16	3/4"-5/8"	G 3/4	G 5/8	46.0	16.0	16	32	0.126
1800-16-06	25-10	1"-3/8"	G 1	G 3/8	45.5	19.0	12	41	0.174
1800-16-08	25-12	1"-1/2"	G 1	G 1/2	48.0	19.0	14	41	0.185
1800-16-10	25-16	1"-5/8"	G 1	G 5/8	49.0	19.0	16	41	0.192
1800-16-12	25-20	1"-3/4"	G 1	G 3/4	49.0	19.0	16	41	0.190
1800-20-12	32-20	1.1/4"-3/4"	G 1 1/4	G 3/4	54.0	20.0	16	50	0.320
1800-20-16	32-25	1.1/4"-1"	G 1 1/4	G 1	55.0	20.0	19	50	0.323
1800-24-12	38-20	1.1/2"-3/4"	G 1 1/2	G 3/4	54.0	22.0	16	55	0.410
1800-24-16	38-25	1.1/2"-1"	G 1 1/2	G 1	59.0	22.0	19	55	0.414
1800-24-20	38-32	1.1/2"-1.1/4"	G 1 1/2	G 1 1/4	60.0	22.0	20	55	0.600
1800-32-16	50-25	2"-1"	G 2	G 1	64.0	22.0	19	70	0.612
1800-32-20	50-32	2"-1.1/4"	G 2	G 1 1/4	65.5	25.0	20	70	0.720
1800-32-24	50-38	2"-1.1/2"	G 2	G 1 1/2	67.5	25.0	22	70	0.735

R605

Short Male-Female reducing (ISO 8434-6)

S

Part number	Dimensions							Weight kg/unit
	Ø							
	tube mm	tube inch	F	F1	L	L2	CH1	
R605-04-02	8-6	5/16"-1/4"	G 1/4	G 1/8	23.0	11.0	19	0.026
R605-06-02	10-6	3/8"-1/4"	G 3/8	G 1/4	21.5	12.0	22	0.036
R605-06-04	10-8	3/8"-5/16"	G 3/8	G 1/4	27.0	12.0	22	0.045
R605-08-04	12-8	1/2"-5/16"	G 1/2	G 1/4	25.0	14.0	27	0.053
R605-08-06	12-10	1/2"-3/8"	G 1/2	G 3/8	28.5	14.0	27	0.058
R605-12-04	20-8	3/4"-5/16"	G 3/4	G 1/4	27.0	16.0	32	0.101
R605-12-06	20-10	3/4"-3/8"	G 3/4	G 3/8	27.0	16.0	32	0.091
R605-12-08	20-12	3/4"-1/2"	G 3/4	G 1/2	33.0	16.0	32	0.072
R605-16-06	25-10	1"-3/8"	G 1	G 3/8	30.0	19.0	41	0.173
R605-16-08	25-12	1"-1/2"	G 1	G 1/2	30.0	19.0	41	0.152
R605-16-12	25-20	1"-3/4"	G 1	G 3/4	30.0	19.0	41	0.131
R605-20-12	32-20	1.1/4"-3/4"	G 1 1/4	G 3/4	34.0	20.0	50	0.271
R605-20-16	32-25	1.1/4"-1"	G 1 1/4	G 1	34.0	20.0	50	0.223
R605-24-12	38-20	1.1/2"-3/4"	G 1 1/2	G 3/4	39.0	22.0	55	0.407
R605-24-16	38-25	1.1/2"-1"	G 1 1/2	G 1	35.0	22.0	55	0.316
R605-24-20	38-32	1.1/2"-1.1/4"	G 1 1/2	G 1 1/4	39.0	22.0	55	0.225
R605-32-20	50-32	2"-1.1/4"	G 2	G 1 1/4	42.5	25.0	70	0.632
R605-32-24	50-38	2"-1.1/2"	G 2	G 1 1/2	42.5	25.0	70	0.521

Male-Female connector
(ISO 8434-6)

S

Part number	Dimensions							Weight kg/unit
	Ø							
	tube mm	tube inch	F	F1	L	L2	CH1	
2000-02-26	6	1/4"	G 1/8	G 1/8	26.0	8.0	14	0.019
2000-04-33	8	5/16"	G 1/4	G 1/4	33.0	11.0	19	0.041
2000-04-42	8	5/16"	G 1/4	G 1/4	42.0	11.0	19	0.060
2000-04-55	8	5/16"	G 1/4	G 1/4	55.0	11.0	19	0.077
2000-06-35	10	3/8"	G 3/8	G 3/8	35.0	12.0	22	0.052
2000-06-42	10	3/8"	G 3/8	G 3/8	42.0	12.0	22	0.087
2000-06-54	10	3/8"	G 3/8	G 3/8	54.0	12.0	22	0.086
2000-06-65	10	3/8"	G 3/8	G 3/8	65.0	12.0	22	0.113
2000-08-35	12	1/2"	G 1/2	G 1/2	35.0	14.0	27	0.073
2000-08-45	12	1/2"	G 1/2	G 1/2	45.0	14.0	27	0.103
2000-08-60	12	1/2"	G 1/2	G 1/2	60.0	14.0	27	0.141
2000-08-80	12	1/2"	G 1/2	G 1/2	80.0	14.0	27	0.197
2000-12-48	20	3/4"	G 3/4	G 3/4	48.0	16.0	32	0.137
2000-12-64	20	3/4"	G 3/4	G 3/4	64.0	16.0	32	0.189
2000-12-75	20	3/4"	G 3/4	G 3/4	75.0	16.0	32	0.250
2000-16-50	25	1"	G 1	G 1	50.0	19.0	41	0.219
2000-16-90	25	1"	G 1	G 1	90.0	19.0	41	0.565
2000-20-62	32	1.1/4"	G 1 1/4	G 1 1/4	62.0	20.0	50	0.408

2010

Male-Female reducing (ISO 8434-6)

S

Part number	Dimensions						Weight kg/unit	
	Ø							
	tube mm	tube inch	F	F1	L	L2		CH1
2010-02-04	6-8	1/4"-5/16"	G 1/4	G 1/8	25.0	11.0	19	0.034
2010-04-02	8-6	5/16"-1/4"	G 1/8	G 1/4	29.0	8.0	19	39.000
2010-04-06	8-10	5/16"-3/8"	G 3/8	G 1/4	35.0	12.0	22	0.066
2010-04-08	8-12	5/16"-1/2"	G 1/2	G 1/4	34.0	14.0	27	0.078
2010-06-04	10-8	3/8"-5/16"	G 1/4	G 3/8	36.0	11.0	22	0.050
2010-06-08	10-12	3/8"-1/2"	G 1/2	G 3/8	41.0	14.0	27	0.111
2010-08-04	12-8	1/2"-5/16"	G 1/4	G 1/2	35.0	11.0	27	0.071
2010-08-06	12-10	1/2"-3/8"	G 3/8	G 1/2	38.0	12.0	27	0.083
2010-08-12	12-20	1/2"-3/4"	G 3/4	G 1/2	43.0	16.0	32	0.162
2010-08-16	12-25	1/2"-1"	G 1	G 1/2	42.0	19.0	41	0.260
2010-12-04	20-8	3/4"-5/16"	G 1/4	G 3/4	41.0	11.0	32	0.113
2010-12-06	20-10	3/4"-3/8"	G 3/8	G 3/4	42.5	12.0	32	0.122
2010-12-08	20-12	3/4"-1/2"	G 1/2	G 3/4	53.0	14.0	32	0.148
2010-12-16	20-25	3/4"-1"	G 1	G 3/4	49.0	19.0	41	0.167
2010-16-08	25-12	1"-1/2"	G 1/2	G 1	45.0	14.0	41	0.181
2010-16-12	25-20	1"-3/4"	G 3/4	G 1	47.0	16.0	41	0.214
2010-16-20	25-32	1"-1.1/4"	G 1 1/4	G 1	51.0	20.0	50	0.254
2010-20-12	32-20	1.1/4"-3/4"	G 3/4	G 1 1/4	51.0	16.0	50	0.275
2010-20-16	32-25	1.1/4"-1"	G 1	G 1 1/4	53.0	19.0	50	0.298
2010-20-24	32-38	1.1/4"-1.1/2"	G 1 1/2	G 1 1/4	57.0	22.0	55	0.341
2010-24-16	38-25	1.1/2"-1"	G 1	G 1 1/2	54.0	19.0	55	0.355
2010-24-20	38-32	1.1/2"-1.1/4"	G 1 1/4	G 1 1/2	52.0	20.0	55	0.557
2010-32-20	50-32	2"-1.1/4"	G 1 1/4	G 2	66.0	20.0	70	0.807
2010-32-24	50-38	2"-1.1/2"	G 1 1/2	G 2	68.0	22.0	70	0.852

Male/Male extention BSP (ISO 8434-6)

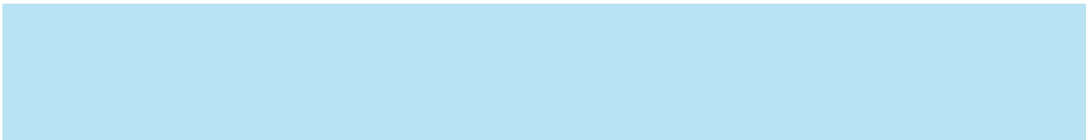
S

Part number	Dimensions						Weight kg/unit
	Ø						
	tube mm	tube inch	F	L	L2	CH1	
2020-04-04	8	5/16"	G 1/4	45.0	11.0	19	0.062
2020-06-06	10	3/8"	G 3/8	50.0	12.0	22	0.122
2020-08-08	12	1/2"	G 1/2	61.0	14.0	27	0.195
2020-12-12	20	3/4"	G 3/4	73.0	16.0	32	0.248
2020-16-16	25	1"	G 1	84.0	19.0	41	0.480

A108

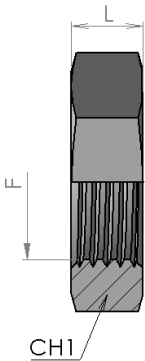
**Bulkhead Union
(ISO 8434-6)**

BHS



Bulkhead locknut

LN



Part number	Dimensions					Weight kg/unit
	Ø					
	tube mm	tube inch	F	L	CH1	
A107-02	6	1/4"	G 1/8	5.0	14	0.004
A107-04	8	5/16"	G 1/4	6.0	19	0.009
A107-06	10	3/8"	G 3/8	7.0	22	0.013
A107-08	12	1/2"	G 1/2	8.0	27	0.021
A107-10	16	5/8"	G 5/8	9.0	30	0.027
A107-12	20	3/4"	G 3/4	9.0	32	0.029
A107-16	25	1"	G 1	10.0	41	0.055
A107-20	32	1.1/4"	G 1 1/4	13.0	50	0.089

4520

90° Union elbow BSP
(ISO 8434-6)

E

Part number	Dimensions					Weight kg/unit
	Ø					
	tube mm	tube inch	F	L1	CH1	
4520-02	6	1/4"	G 1/8	22	12	0.021
4520-04	8	5/16"	G 1/4	27	14	0.045
4520-06	10	3/8"	G 3/8	32	19	0.085
4520-08	12	1/2"	G 1/2	36	22	0.123
4520-12	20	3/4"	G 3/4	42	27	0.178
4520-16	25	1"	G 1	46	33	0.288
4520-20	32	1.1/4"	G 1 1/4	52	41	0.512
4520-24	38	1.1/2"	G 1 1/2	59	50	0.824

45° Union Elbow BSP (ISO 8434-6)

E45

Part number	Dimensions						Weight kg/unit
	Ø						
	tube mm	tube inch	F	L	L1	CH1	
4530-04	8	5/16"	G 1/4	21.5	21.5	14	0.045
4530-06	10	3/8"	G 3/8	26.0	26	19	0.085
4530-08	12	1/2"	G 1/2	30.0	29	22	0.123
4530-12	20	3/4"	G 3/4	35.0	33	27	0.178
4530-16	25	1"	G 1	38.5	37.5	33	0.288

4730

Union Tee BSP
(ISO 8434-6)

T

Part number	Dimensions					Weight kg/unit
	Ø					
	tube mm	tube inch	F	L1	CH1	
4730-02	6	1/4"	G 1/8	22	12	0.033
4730-04	8	5/16"	G 1/4	27	14	0.061
4730-06	10	3/8"	G 3/8	32	19	0.105
4730-08	12	1/2"	G 1/2	36	22	0.157
4730-12	20	3/4"	G 3/4	42	27	0.258
4730-16	25	1"	G 1	46	33	0.591
4730-20	32	1.1/4"	G 1 1/4	52	41	0.646
4730-24	38	1.1/2"	G 1 1/2	59	50	0.940

Union Cross BSP
(ISO 8434-6)

K

Part number	Dimensions					Weight kg/unit
	Ø					
	tube mm	tube inch	F	L1	CH1	
4900-04	8	5/16"	G 1/4	27	14	0.081
4900-06	10	3/8"	G 3/8	32	19	0.130
4900-08	12	1/2"	G 1/2	36	22	0.181
4900-12	20	3/4"	G 3/4	42	27	0.312

4910

Female Union Cross BSP

K

Part number	Dimensions					Weight kg/unit
	Ø					
	tube mm	tube inch	F	L1	CH1	
4910-02	6	1/4"	G 1/8	17	14	0.045
4910-04	8	5/16"	G 1/4	22.5	19	0.113
4910-06	10	3/8"	G 3/8	26	22	0.154
4910-08	12	1/2"	G 1/2	31	27	0.257

4700

Swivel Run Tee (ISO 8434-6)

SWRT

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L1	CH1	CH3	
4700-02	6	1/4"	G 1/8	G 1/8	20.0	22	12	14	0.057
4700-04	8	5/16"	G 1/4	G 1/4	25.0	27	14	19	0.084
4700-06	10	3/8"	G 3/8	G 3/8	30.0	32	19	22	0.152
4700-08	12	1/2"	G 1/2	G 1/2	34.0	36	22	27	0.231
4700-12	20	3/4"	G 3/4	G 3/4	40.0	42	27	32	0.305
4700-16	25	1"	G 1	G 1	43.0	46	33	41	0.474
4700-20	32	1.1/4"	G 1 1/4	G 1 1/4	49.0	52	41	50	0.935
4700-24	38	1.1/2"	G 1 1/2	G 1 1/2	60.0	59	50	55	1.427

4710

Swivel Branch Tee (ISO 8434-6)

SWBT

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L1	CH1	CH3	
4710-02	6	1/4"	G 1/8	G 1/8	20.0	22	12	14	0.057
4710-04	8	5/16"	G 1/4	G 1/4	25.0	27	14	19	0.084
4710-06	10	3/8"	G 3/8	G 3/8	30.0	32	19	22	0.152
4710-08	12	1/2"	G 1/2	G 1/2	34.0	36	22	27	0.231
4710-12	20	3/4"	G 3/4	G 3/4	40.0	42	27	32	0.305
4710-16	25	1"	G 1	G 1	43.0	46	33	41	0.474
4710-20	32	1.1/4"	G 1 1/4	G 1 1/4	49.0	52	41	50	0.935
4710-24	38	1.1/2"	G 1 1/2	G 1 1/2	60.0	59	50	55	1.427

Male Run Tee
(ISO 8434-6)

SWRT

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L1	CH1	CH3	
4800-04	8	5/16"	G 1/4	G 1/4	25.0	27	14	19	0.106
4800-06	10	3/8"	G 3/8	G 3/8	30.0	32	19	22	0.182
4800-08	12	1/2"	G 1/2	G 1/2	34.0	36	22	27	0.281
4800-12	20	3/4"	G 3/4	G 3/4	40.0	42	27	32	0.376
4800-16	25	1"	G 1	G 1	43.0	46	33	41	0.565

4810

Male Branch Tee
(ISO 8434-6)

SWBT

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L1	CH1	CH3	
4810-04	8	5/16"	G 1/4	G 1/4	25.0	27	14	19	0.106
4810-06	10	3/8"	G 3/8	G 3/8	30.0	32	19	22	0.182
4810-08	12	1/2"	G 1/2	G 1/2	34.0	36	22	27	0.281
4810-12	20	3/4"	G 3/4	G 3/4	40.0	42	27	32	0.376
4810-16	25	1"	G 1	G 1	43.0	46	33	41	0.565

Swivel Female Union Tee BSP (ISO 8434-6)

T

Part number	Dimensions						Weight kg/unit
	Ø						
	tube mm	tube inch	F1	L1	CH1	CH3	
4720-02	6	1/4"	G 1/8	22	12	14	0.058
4720-04	8	5/16"	G 1/4	27	14	19	0.125
4720-06	10	3/8"	G 3/8	32	19	22	0.296
4720-08	12	1/2"	G 1/2	36	22	27	0.324
4720-12	20	3/4"	G 3/4	42	27	32	0.483
4720-16	25	1"	G 1	46	33	41	0.699
4720-20	32	1.1/4"	G 1 1/4	52	41	50	1.294
4720-24	38	1.1/2"	G 1 1/2	59	50	55	1.832

2350

Reducing Female-Male BSP (ISO 8434-6)

RDSW

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L2	CH1	CH3	
2350-02-02	6	1/4"	G 1/8	G 1/8	23.0	8.0	14	14	0.030
2350-04-04	8	5/16"	G 1/4	G 1/4	29.0	11.0	19	19	0.049
2350-04-06	8-10	5/16"-3/8"	G 1/4	G 3/8	31.5	11.0	19	22	0.064
2350-06-04	10-8	3/8"-5/16"	G 3/8	G 1/4	31.5	12.0	22	19	0.061
2350-06-06	10	3/8"	G 3/8	G 3/8	34.0	12.0	22	22	0.076
2350-06-08	10-12	3/8"-1/2"	G 3/8	G 1/2	36.0	12.0	22	27	0.105
2350-06-12	10-20	3/8"-3/4"	G 3/8	G 3/4	39.0	12.0	27	32	0.145
2350-08-06	12-10	1/2"-3/8"	G 1/2	G 3/8	37.5	14.0	27	22	0.099
2350-08-08	12	1/2"	G 1/2	G 1/2	39.5	14.0	27	27	0.128
2350-08-10	12-16	1/2"-5/8"	G 1/2	G 5/8	37.0	14.0	27	30	0.160
2350-08-12	12-20	1/2"-3/4"	G 1/2	G 3/4	40.0	14.0	27	32	0.152
2350-10-10	16	5/8"	G 5/8	G 5/8	39.0	16.0	30	30	0.164
2350-12-08	20-12	3/4"-1/2"	G 3/4	G 1/2	39.0	16.0	32	27	0.161
2350-12-12	20	3/4"	G 3/4	G 3/4	43.5	16.0	32	32	0.188
2350-12-16	20-25	3/4"-1"	G 3/4	G 1	44.0	16.0	32	38	0.214
2350-16-12	25-20	1"-3/4"	G 1	G 3/4	47.5	19.0	41	32	0.258
2350-16-16	25	1"	G 1	G 1	48.0	19.0	41	41	0.279
2350-16-20	25-32	1"-1.1/4"	G 1	G 1 1/4	50.5	19.0	41	50	0.426
2350-20-20	32	1.1/4"	G 1 1/4	G 1 1/4	54.5	20.0	50	50	0.536
2350-24-20	38-32	1.1/2"-1.1/4"	G 1 1/2	G 1 1/4	55.5	22.0	55	50	0.587
2350-24-24	38	1.1/2"	G 1 1/2	G 1 1/2	57.5	22.0	55	55	0.619
2350-32-32	50	2"	G 2	G 2	62.5	25.0	70	70	0.781

Swivel 90° Elbow
(ISO 8434-6)

SWE

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L1	CH1	CH3	
4500-02	6	1/4"	G 1/8	G 1/8	20.0	22	12	14	0.026
4500-04	8	5/16"	G 1/4	G 1/4	25.0	27	14	19	0.062
4500-06	10	3/8"	G 3/8	G 3/8	30.0	32	19	22	0.104
4500-08	12	1/2"	G 1/2	G 1/2	36.0	34	22	27	0.159
4500-10	16	5/8"	G 5/8	G 5/8	36.0	36	22	30	0.158
4500-12	20	3/4"	G 3/4	G 3/4	40.0	42	27	32	0.226
4500-16	25	1"	G 1	G 1	43.0	46	33	41	0.377
4500-20	32	1.1/4"	G 1 1/4	G 1 1/4	49.0	52	41	50	0.650
4500-24	38	1.1/2"	G 1 1/2	G 1 1/2	60.0	59	50	55	0.999

4510

Swivel 45° Elbow (ISO 8434-6)

SWE45

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L1	CH1	CH3	
4510-02	6	1/4"	G 1/8	G 1/8	19.0	20	12	14	0.026
4510-04	8	5/16"	G 1/4	G 1/4	23.5	21.5	14	19	0.062
4510-06	10	3/8"	G 3/8	G 3/8	26.0	26	19	22	0.104
4510-08	12	1/2"	G 1/2	G 1/2	32.0	29	22	27	0.159
4510-12	20	3/4"	G 3/4	G 3/4	33.0	32	27	32	0.226
4510-16	25	1"	G 1	G 1	37.0	37.5	33	41	0.377
4510-20	32	1.1/4"	G 1.1/4	G 1.1/4	37.0	39	41	50	411.000
4510-24	38	1.1/2"	G 1.1/2	G 1.1/2	47.0	46	50	55	649.000

Swivel 90° Compact Elbow (ISO 8434-6)

SWE

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L1	CH1	CH3	
3220-02-02	6	1/4"	G 1/8	G 1/8	17.0	17	14	14	0.026
3220-04-04	8	5/16"	G 1/4	G 1/4	20.0	23	19	19	0.061
3220-06-06	10	3/8"	G 3/8	G 3/8	24.0	25	22	22	0.089
3220-08-08	12	1/2"	G 1/2	G 1/2	28.0	31	27	27	0.157
3220-12-12	20	3/4"	G 3/4	G 3/4	34.0	35	33	32	0.293
3220-16-16	25	1"	G 1	G 1	39.0	43	41	41	0.473
3220-20-20	32	1.1/4"	G 1 1/4	G 1 1/4	47.0	50	50	50	0.855
3200-24-24	38	1.1/2"	G 1 1/2	G 1 1/2	57.0	56	60	55	1.170
3200-32-32	50	2"	G 2	G 2	60.0	67	75	70	2.011

3320

Swivel 45° Compact Elbow (ISO 8434-6)

SWE45

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L1	CH1	CH3	
3320-04-04	8	5/16"	G 1/4	G 1/4	22.5	18	19	19	0.054
3320-06-06	10	3/8"	G 3/8	G 3/8	25.0	21.5	22	22	0.082
3320-08-08	12	1/2"	G 1/2	G 1/2	32.0	22.5	27	27	0.141
3320-12-12	20	3/4"	G 3/4	G 3/4	35.5	31.5	32	32	0.248
3320-16-16	25	1"	G 1	G 1	42.0	33	41	38	0.443

Swivel 90° Elbow (welded)

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L1	CH1	CH3	
2550-04-04	8	5/16"	G 1/4	G 1/4	30.0	32	19	19	0.062
2550-06-06	10	3/8"	G 3/8	G 3/8	37.0	38	22	22	0.102
2550-08-08	12	1/2"	G 1/2	G 1/2	44.0	43	27	27	0.108
2550-12-12	20	3/4"	G 3/4	G 3/4	59.0	62	32	32	0.243
2550-16-16	25	1"	G 1	G 1	66.0	68	41	41	0.422
2550-20-20	32	1.1/4"	G 1 1/4	G 1 1/4	71.0	76	50	50	0.575
2550-24-24	38	1.1/2"	G 1 1/2	G 1 1/2	89.0	93	55	55	0.707
2550-32-32	50	2"	G 2	G 2	113.0	123	70	70	1.626

2650

Swivel 45° Elbow (welded)

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L1	CH1	CH3	
2650-04-04	8	5/16"	G 1/4	G 1/4	17.0	44	19	19	0.062
2650-06-06	10	3/8"	G 3/8	G 3/8	20.0	52	22	22	0.102
2650-08-08	12	1/2"	G 1/2	G 1/2	23.0	53	27	27	0.108
2650-12-12	20	3/4"	G 3/4	G 3/4	29.0	73	32	32	0.243
2650-16-16	25	1"	G 1	G 1	35.0	85	41	41	0.422
2650-20-20	32	1.1/4"	G 1 1/4	G 1 1/4	33.0	84	50	50	0.575
2650-24-24	38	1.1/2"	G 1 1/2	G 1 1/2	41.0	103	55	55	0.707
2650-32-32	50	2"	G 2	G 2	53.0	134	65	70	1.626

Straight swivel nut union BSP (ISO 8434-6)

S

Part number	Dimensions						Weight kg/unit
	Ø						
	tube mm	tube inch	F	F1	L	CH3	
2450-02-02	6	1/4"	G 1/8	G 1/8	10.0	14	0.023
2450-04-04	8	5/16"	G 1/4	G 1/4	22.0	19	0.061
2450-06-06	10	3/8"	G 3/8	G 3/8	29.0	22	0.084
2450-08-08	12	1/2"	G 1/2	G 1/2	32.0	27	0.137
2450-10-10	16	5/8"	G 5/8	G 5/8	29.0	30	0.177
2450-12-12	20	3/4"	G 3/4	G 3/4	37.5	32	0.206
2450-16-16	25	1"	G 1	G 1	42.0	41	0.295
2450-20-20	32	1.1/4"	G 1 1/4	G 1 1/4	50.0	50	0.618
2450-24-24	38	1.1/2"	G 1 1/2	G 1 1/2	53.0	55	0.714
2450-32-32	50	2"	G 2	G 2	50.0	70	1.135

4550

Swivel 90° Elbow BSP
(ISO 8434-6)

E

Part number	Dimensions						Weight kg/unit
	Ø						
	tube mm	tube inch	F	L1	CH1	CH3	
4550-04	8	5/16"	G 1/4	25	14	19	0.044
4550-06	10	3/8"	G 3/8	30	19	22	0.088
4550-08	12	1/2"	G 1/2	34	22	27	0.134
4550-12	20	3/4"	G 3/4	40	27	32	0.219
4550-16	25	1"	G 1	43	32	41	0.339
4550-20	32	1.1/4"	G 1 1/4	49	41	50	0.576
4550-24	38	1.1/2"	G 1 1/2	60	50	55	0.978

Swivel 90° Elbow (welded)

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L1	CH1	CH3	
2750-04-04	8	5/16"	G 1/4	G 1/4	30.0	35	19	19	0.070
2750-06-06	10	3/8"	G 3/8	G 3/8	37.0	43	22	22	0.107
2750-08-08	12	1/2"	G 1/2	G 1/2	44.0	49	27	27	0.111
2750-12-12	20	3/4"	G 3/4	G 3/4	59.0	67	32	32	0.252
2750-16-16	25	1"	G 1	G 1	66.0	76	38	41	0.431
2750-20-20	32	1.1/4"	G 1 1/4	G 1 1/4	71.0	70	50	50	0.586
2750-24-24	38	1.1/2"	G 1 1/2	G 1 1/2	89.0	98	55	55	0.718
2750-32-32	50	2"	G 2	G 2	113.0	127	70	70	1.711

2850

Swivel 45° Elbow (welded)

Part number	Dimensions						CH1	CH3	Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L1			
2850-04-04	8	5/16"	G 1/4	G 1/4	17.0	47	19	19	0.070
2850-06-06	10	3/8"	G 3/8	G 3/8	20.0	57	22	22	0.107
2850-08-08	12	1/2"	G 1/2	G 1/2	23.0	59	27	27	0.111
2850-12-12	20	3/4"	G 3/4	G 3/4	29.0	79	32	32	0.252
2850-16-16	25	1"	G 1	G 1	35.0	93	38	41	0.431
2850-20-20	32	1.1/4"	G 1 1/4	G 1 1/4	33.0	87	50	50	0.586
2850-24-24	38	1.1/2"	G 1 1/2	G 1 1/2	41.0	108	55	55	0.718
2850-32-32	50	2"	G 2	G 2	53.0	139	70	70	1.711

90° Female Union Elbow BSP**E**

Part number	Dimensions					Weight kg/unit
	Ø					
	tube mm	tube inch	F	L1	CH1	
4570-02	6	1/4"	G 1/8	17	14	0.060
4570-04	8	5/16"	G 1/4	22.5	19	0.081
4570-06	10	3/8"	G 3/8	26	22	0.010
4570-08	12	1/2"	G 1/2	31	27	0.184
4570-12	20	3/4"	G 3/4	34.5	33	0.263
4570-16	25	1"	G 1	41	41	0.502
4570-20	32	1.1/4"	G 1 1/4	43	50	0.663

4820

Female Union Tee BSP

T

Part number	Dimensions					Weight kg/unit
	Ø					
	tube mm	tube inch	F	L1	CH1	
4820-02	6	1/4"	G 1/8	17	14	0.040
4820-04	8	5/16"	G 1/4	22.5	19	0.074
4820-06	10	3/8"	G 3/8	26	22	0.111
4820-08	12	1/2"	G 1/2	31	27	0.177
4820-12	20	3/4"	G 3/4	34.5	33	0.294
4820-16	25	1"	G 1	41	41	0.567
4820-20	32	1.1/4"	G 1 1/4	43	50	0.084

Female Union
(ISO 8434-6)

S

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L2	L3	CH1	
A105-02-02	6	1/4"	G 1/8	G 1/8	21.0	4.5	4.5	14	0.015
A105-02-04	6-8	1/4"-5/16"	G 1/8	G 1/4	29.0	4.5	4.5	19	0.029
A105-04-04	8	5/16"	G 1/4	G 1/4	29.0	4.5	4.5	19	0.034
A105-04-06	8-10	5/16"-3/8"	G 1/4	G 3/8	31.0	4.5	4.5	22	0.059
A105-06-06	10	3/8"	G 3/8	G 3/8	29.0	4.5	4.5	22	0.048
A105-06-08	10-12	3/8"-1/2"	G 3/8	G 1/2	32.0	4.5	4.5	27	0.082
A105-08-08	12	1/2"	G 1/2	G 1/2	34.0	4.5	4.5	27	0.081
A105-08-12	12-20	1/2"-3/4"	G 1/2	G 3/4	38.0	4.5	4.5	32	0.126
A105-12-12	20	3/4"	G 3/4	G 3/4	38.0	4.5	4.5	32	0.108
A105-12-16	20-25	3/4"-1"	G 3/4	G 1	43.0	4.5	4.5	41	0.152
A105-16-16	25	1"	G 1	G 1	43.0	4.5	4.5	41	0.211
A105-20-20	32	1.1/4"	G 1 1/4	G 1 1/4	47.0	4.5	4.5	50	0.312
A105-24-24	38	1.1/2"	G 1 1/2	G 1 1/2	51.0	4.5	4.5	55	0.357
A105-32-32	50	2"	G 2	G 2	57.0	4.5	4.5	70	0.591

A608

**Female plug BSP
(ISO 8434-6)**

BRNP

Part number	Dimensions						Weight kg/unit
	Ø						
	tube mm	tube inch	F	L	L1	CH3	
A608-02	6	1/4"	G 1/8	14.0	10.5	14	0.003
A608-04	8	5/16"	G 1/4	16.0	12	19	0.008
A608-06	10	3/8"	G 3/8	20.0	15	22	0.014
A608-08	12	1/2"	G 1/2	24.0	17	27	0.024
A608-10	16	5/8"	G 5/8	24.0	15	30	0.270
A608-12	20	3/4"	G 3/4	27.0	19	32	0.044
A608-16	25	1"	G 1	31.0	21	41	0.076
A608-20	32	1.1/4"	G 1 1/4	31.0	23.5	50	0.144
A608-24	38	1.1/2"	G 1 1/2	31.0	25.5	55	0.195
A608-32	50	2"	G 2	36.0	23	70	0.286

Female BSP plug
(ISO 8434-6)

Part number	Dimensions					Weight kg/unit
	Ø					
	tube mm	tube inch	F	L	CH3	
A604-02	6	1/4"	G 1/8	15.5	14	0.017
A604-04	8	5/16"	G 1/4	19.0	19	0.032
A604-06	10	3/8"	G 3/8	17.0	22	0.050
A604-08	12	1/2"	G 1/2	23.0	27	0.070
A604-10	16	5/8"	G 5/8	19.0	30	0.093
A604-12	20	3/4"	G 3/4	22.0	32	0.109
A604-16	25	1"	G 1	31.0	41	0.202
A604-20	32	1.1/4"	G 1 1/4	36.0	50	0.371
A604-24	38	1.1/2"	G 1 1/2	41.0	55	0.494
A604-32	50	2"	G 2	45.5	70	0.881

A605

Male plug BSP
(ISO 8434-6)

PL

Part number	Dimensions						Weight kg/unit
	Ø						
	tube mm	tube inch	F	L	L2	CH1	
A605-02	6	1/4"	G 1/8	14.5	8.0	14	0.011
A605-04	8	5/16"	G 1/4	19.0	11.0	19	0.024
A605-06	10	3/8"	G 3/8	21.5	12.0	22	0.039
A605-08	12	1/2"	G 1/2	25.0	14.0	27	0.067
A605-10	16	5/8"	G 5/8	27.0	16.0	30	0.088
A605-12	20	3/4"	G 3/4	27.0	16.0	32	0.098
A605-16	25	1"	G 1	31.0	19.0	41	0.168
A605-20	32	1.1/4"	G 1 1/4	34.0	20.0	50	0.317
A605-24	38	1.1/2"	G 1 1/2	39.0	22.0	55	0.434
A605-32	50	2"	G 2	42.5	25.0	70	0.760

Braze-on straight connector

BRS

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	L	L2	Q	P	CH1	
MG-04-08	8	5/16"	G 1/4	19.0	11.0	8	6	19	0.023
MG-06-12	10	3/8"	G 3/8	21.5	12.0	12	7	22	0.034
MG-08-14	12	1/2"	G 1/2	25.0	14.0	14	8	27	0.057
MG-08-16	12	1/2"	G 1/2	25.0	14.0	16	8	27	0.055
MG-08-18	12	1/2"	G 1/2	25.0	14.0	18	8	27	0.053
MG-08-20	12	1/2"	G 1/2	24.0	14.0	20	5	27	0.051
MG-12-20	20	3/4"	G 3/4	27.0	16.0	20	9	32	0.083
MG-12-22	20	3/4"	G 3/4	27.0	16.0	22	8	32	0.080
MG-12-25	20	3/4"	G 3/4	27.0	16.0	25	9	32	0.070
MG-16-25	25	1"	G 1	30.0	19.0	25	9	41	0.147
MG-16-30	25	1"	G 1	30.0	19.0	30	9	41	0.132
MG-20-32	32	1.1/4"	G 1 1/4	34.0	20.0	32	9	50	0.250
MG-24-38	38	1.1/2"	G 1 1/2	35.0	22.0	38	10	55	0.281

220C

Braze-on straight connector

Part number	Dimensions						Weight kg/unit
	Ø						
	tube mm	tube inch	F	D	L	L1	
220C-02	6	1/4"	G 1/8	10	22.0	9	0.010
220C-04	8	5/16"	G 1/4	14	30.0	12	0.024
220C-06	10	3/8"	G 3/8	17	32.0	14	0.036
220C-08	12	1/2"	G 1/2	21	34.0	15	0.056
220C-12	20	3/4"	G 3/4	28	40.0	16	0.120
220C-16	25	1"	G 1	34	41.0	19	0.167
220C-20	32	1.1/4"	G 1 1/4	48	50.0	23	0.355

Braze-on stud

Part number	Dimensions					Weight kg/unit
	Ø					
	tube mm	tube inch	F	D	L	
2200-02	6	1/4"	G 1/8	20	13.0	0.025
2200-04	8	5/16"	G 1/4	22	16.0	0.033
2200-06	10	3/8"	G 3/8	26	17.0	0.045
2200-08	12	1/2"	G 1/2	30	18.0	0.056
2200-12	20	3/4"	G 3/4	38	20.0	0.098
2200-16	25	1"	G 1	45	25.0	0.155
2200-20	32	1.1/4"	G 1 1/4	55	25.0	0.212
2200-24	38	1.1/2"	G 1 1/2	62	30.0	0.310
2200-32	50	2"	G 2	70	30.0	0.272

1865

Male stud connector
BSP-BSPT

SDS

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L2	L3	CH1	
1865-02-02	6	1/4"	G 1/8	R 1/8 K	23.5	8.0	9	14	0.014
1865-04-04	8	5/16"	G 1/4	R 1/4 K	33.0	11.0	14	19	0.034
1865-06-06	10	3/8"	G 3/8	R 3/8 K	35.5	12.0	14	22	0.049
1865-08-08	12	1/2"	G 1/2	R 1/2 K	41.0	14.0	18	27	0.082
1865-08-12	12-20	1/2"-3/4"	G 1/2	R 3/4 K	45.5	14.0	19	27	0.109
1865-12-08	20-12	3/4"-1/2"	G 3/4	R 1/2 K	45.0	16.0	18	32	0.121
1865-12-12	20	3/4"	G 3/4	R 3/4 K	46.0	16.0	19	32	0.136
1865-16-16	25	1"	G 1	R 1 K	54.0	19.0	24	41	0.224
1865-20-20	32	1.1/4"	G 1 1/4	R 1 1/4 K	59.0	20.0	24.5	50	0.361
1865-24-24	38	1.1/2"	G 1 1/2	R 1 1/2 K	60.5	22.0	25.5	55	0.448
1865-32-32	50	2"	G 2	R 2 K	72.5	25.0	30	70	0.816

2360

Swivel Connector Female BSP/Male BSPT

SWS

Part number	Dimensions						CH1	CH3	Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L2			
2360-02-02	6	1/4"	G 1/8	R 1/8 K	29.0	10.0	12	14	0.030
2360-04-04	8	5/16"	G 1/4	R 1/4 K	33.0	14.5	14	19	0.049
2360-06-06	10	3/8"	G 3/8	R 3/8 K	36.0	14.5	19	22	0.076
2360-06-08	10-12	3/8"-1/2"	G 3/8	R 1/2 K	40.0	19.0	22	22	0.105
2360-08-06	12-10	1/2"-3/8"	G 1/2	R 3/8 K	42.0	14.5	22	27	0.099
2360-08-08	12	1/2"	G 1/2	R 1/2 K	45.0	19.0	22	27	0.128
2360-12-08	20-12	3/4"-1/2"	G 3/4	R 1/2 K	47.0	19.0	27	32	0.161
2360-12-12	20	3/4"	G 3/4	R 3/4 K	47.0	19.5	27	32	0.188
2360-12-16	20-25	3/4"-1"	G 3/4	R 1 K	55.0	24.0	36	41	0.214
2360-16-16	25	1"	G 1	R 1 K	60.0	24.0	36	41	0.279
2360-20-20	32	1.1/4"	G 1 1/4	R 1 1/4 K	62.0	24.5	46	50	0.536
2360-24-24	38	1.1/2"	G 1 1/2	R 1 1/2 K	67.0	25.5	50	55	0.619

4860

BSPT Branch Tee

SDEBT

Part number	Dimensions							Weight kg/unit
	Ø							
	tube mm	tube inch	F	F1	L	L1	CH1	
4860-02	6	1/4"	G 1/8	R 1/8 K	19.5	22	12	0.031
4860-04	8	5/16"	G 1/4	R 1/4 K	27.5	27	14	0.066
4860-06	10	3/8"	G 3/8	R 3/8 K	31.0	32	19	0.124
4860-08	12	1/2"	G 1/2	R 1/2 K	36.0	36	22	0.187
4860-12	20	3/4"	G 3/4	R3/4 K	40.5	42	27	0.300
4860-16	25	1"	G 1	R 1 K	50.0	46	33	0.442
4860-20	32	1.1/4"	G 1 1/4	R 1 1/4 K	60.5	52	41	0.783

90° Male stud Elbow BSP-BSPT

SDE

Part number	Dimensions							Weight kg/unit
	Ø							
	tube mm	tube inch	F	F1	L	L1	CH1	
4620-02	6	1/4"	G 1/8	R 1/8 K	19.5	22	12	0.015
4620-04	8	5/16"	G 1/4	R 1/4 K	27.5	27	14	0.042
4620-06	10	3/8"	G 3/8	R 3/8 K	31.0	32	19	0.093
4620-08	12	1/2"	G 1/2	R 1/2 K	36.0	36	22	0.142
4620-12	20	3/4"	G 3/4	R3/4 K	40.5	42	27	0.231
4620-16	25	1"	G 1	R 1 K	50.0	46	33	0.372
4620-20	32	1.1/4"	G 1 1/4	R 1 1/4 K	60.5	52	41	0.593
4620-24	38	1.1/2"	G 1 1/2	R 1 1/2 K	67.0	59	50	0.835

4630

45° Male stud elbows BSP-BSPT

SDE45

Part number	Dimensions							Weight kg/unit
	Ø							
	tube mm	tube inch	F	F1	L	L1	CH1	
4630-02	6	1/4"	G 1/8	R 1/8 K	18.5	20	12	0.015
4630-04	8	5/16"	G 1/4	R 1/4 K	23.0	21.5	14	0.042
4630-06	10	3/8"	G 3/8	R 3/8 K	26.0	26	19	0.093
4630-08	12	1/2"	G 1/2	R 1/2 K	31.0	29	22	0.142
4630-12	20	3/4"	G 3/4	R3/4 K	33.5	33	27	0.231
4630-16	25	1"	G 1	R 1 K	39.0	37.5	33	0.372

Swivel 90° Elbow BSP-BSPT

SWE

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L1	CH1	CH3	
4600-02	6	1/4"	G 1/8	R 1/8 K	19.5	20	12	14	0.017
4600-04	8	5/16"	G 1/4	R 1/4 K	27.5	25	14	19	0.046
4600-06	10	3/8"	G 3/8	R 3/8 K	31.0	30	19	22	0.090
4600-08	12	1/2"	G 1/2	R 1/2 K	36.0	34	22	27	0.139
4600-12	20	3/4"	G 3/4	R3/4 K	40.5	40	27	32	0.232
4600-16	25	1"	G 1	R 1 K	50.0	43	33	41	0.261
4600-20	32	1.1/4"	G 1 1/4	R 1 1/4 K	60.5	49	41	50	0.484
4600-24	38	1.1/2"	G 1 1/2	R 1 1/2 K	67.0	60	50	55	0.831

4610

Swivel 45° Elbow BSP-BSPT

SWE45

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L1	CH1	CH3	
4610-04	8	5/16"	G 1/4	R 1/4 K	21.0	26	14	19	0.045
4610-06	10	3/8"	G 3/8	R 3/8 K	25.5	25.5	19	22	0.072
4610-08	12	1/2"	G 1/2	R 1/2 K	25.0	29	22	27	0.099
4610-12	20	3/4"	G 3/4	R3/4 K	33.0	31	27	32	0.172
4610-16	25	1"	G 1	R 1 K	45.0	33.5	33	38	0.304

Male stud connector BSP-NPTF

SDS

2365

Swivel Connector Female BSP/Male NPTF

SWS

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L2	CH1	CH3	
2365-02-02	6	1/4"	G 1/8	1/8 NPTF	27.0	10.0	12	14	0.030
2365-04-04	8	5/16"	G 1/4	1/4 NPTF	33.0	14.0	14	19	0.049
2365-04-06	8-10	5/16"-3/8"	G 1/4	3/8 NPTF	36.0	14.5	17	22	0.064
2365-06-04	10-8	3/8"-5/16"	G 3/8	1/4 NPTF	34.0	14.0	19	19	0.061
2365-06-06	10	3/8"	G 3/8	3/8 NPTF	36.0	14.5	19	22	0.076
2365-06-08	10-12	3/8"-1/2"	G 3/8	1/2 NPTF	40.0	19.0	22	27	0.105
2365-08-06	12-10	1/2"-3/8"	G 1/2	3/8 NPTF	39.0	14.5	22	22	0.099
2365-08-08	12	1/2"	G 1/2	1/2 NPTF	43.5	19.0	22	27	0.128
2365-08-12	12-20	1/2"-3/4"	G 1/2	3/4 NPTF	46.0	19.5	27	32	0.152
2365-12-08	20-12	3/4"-1/2"	G 3/4	1/2 NPTF	47.0	19.0	27	27	0.161
2365-12-12	20	3/4"	G 3/4	3/4 NPTF	46.0	19.5	27	32	0.188
2365-12-16	20-25	3/4"-1"	G 3/4	1 NPTF	55.0	24.0	36	41	0.214
2365-16-12	25-20	1"-3/4"	G 1	3/4 NPTF	54.0	19.0	36	41	0.258
2365-16-16	25	1"	G 1	1 NPTF	60.0	24.0	36	41	0.279
2365-20-20	32	1.1/4"	G 1 1/4	1 1/4 NPTF	62.0	24.5	46	50	0.536
2365-24-24	38	1.1/2"	G 1 1/2	1 1/2 NPTF	67.0	25.5	50	55	0.619

NPTF Branch Tee

SDEBT

Part number	Dimensions							Weight kg/unit
	Ø							
	tube mm	tube inch	F	F1	L	L1	CH1	
4870-02	6	1/4"	G 1 1/4	1 1/2 NPTF	19.5	22	12	0.031
4870-04	8	5/16"	G 1 1/2	1 1/2 NPTF	27.5	27	14	0.066
4870-06	10	3/8"	G 2	2 NPTF	31.0	32	19	0.124
4870-08	12	1/2"	G 1/2	1/2 NPTF	36.0	36	22	0.187
4870-12	20	3/4"	G 3/4	3/4 NPTF	40.5	42	27	0.300
4870-16	25	1"	G 1	1 NPTF	50.0	46	33	0.442

4670

90° Male stud Elbow BSP-NPTF

SDE

Part number	Dimensions							Weight kg/unit
	Ø							
	tube mm	tube inch	F	F1	L	L1	CH1	
4670-02	6	1/4"	G 1/8	1/8 NPTF	19.5	22	12	0.015
4670-04	8	5/16"	G 1/4	1/4 NPTF	27.5	27	14	0.042
4670-06	10	3/8"	G 3/8	3/8 NPTF	31.0	32	19	0.093
4670-08	12	1/2"	G 1/2	1/2 NPTF	36.0	36	22	0.142
4670-12	20	3/4"	G 3/4	3/4 NPTF	40.5	42	27	0.231
4670-16	25	1"	G 1	1 NPTF	50.0	46	33	0.372
4670-20	32	1.1/4"	G 1 1/4	1 1/4 NPTF	60.5	52	41	0.593

45° Male stud Elbow BSP-NPTF

SDE45

Part number	Dimensions							Weight kg/unit
	Ø							
	tube mm	tube inch	F	F1	L	L1	CH1	
4680-02	6	1/4"	G 1/8	1/8 NPTF	18.5	20	12	0.015
4680-04	8	5/16"	G 1/4	1/4 NPTF	23.0	21.5	14	0.042
4680-06	10	3/8"	G 3/8	3/8 NPTF	26.0	26	19	0.093
4680-08	12	1/2"	G 1/2	1/2 NPTF	31.0	29	22	0.142
4680-12	20	3/4"	G 3/4	3/4 NPTF	33.5	33	27	0.231
4680-16	25	1"	G 1	1 NPTF	39.0	37.5	33	0.372

4650

Swivel 90° Elbow BSP-NPTF

SWE

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L1	CH1	CH3	
4650-02	6	1/4"	G 1/8	1/8 NPTF	19.5	20	12	14	0.017
4650-04	8	5/16"	G 1/4	1/4 NPTF	27.5	25	14	19	0.046
4650-06	10	3/8"	G 3/8	3/8 NPTF	31.0	30	19	22	0.090
4650-08	12	1/2"	G 1/2	1/2 NPTF	36.0	34	22	27	0.139
4650-12	20	3/4"	G 3/4	3/4 NPTF	40.5	40	27	32	0.232
4650-16	25	1"	G 1	1 NPTF	50.0	43	33	41	0.261
4650-20	32	1.1/4"	G 1 1/4	1 1/4 NPTF	60.5	49	41	50	0.484
4650-24	38	1.1/2"	G 1 1/2	1 1/2 NPTF	67.0	60	50	55	0.831

Male stud connector BSP-BSPP
(Form E ISO 1179-2)

SDS

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L2	L3	CH1	
1700E04-04	8	5/16"	G 1/4	G 1/4	32.0	11.0	12	19	0.035
1700E06-06	10	3/8"	G 3/8	G 3/8	34.5	12.0	12	22	0.053
1700E08-08	12	1/2"	G 1/2	G 1/2	41.0	14.0	14	27	0.083
1700E12-12	20	3/4"	G 3/4	G 3/4	47.0	16.0	16	32	0.141
1700E16-16	25	1"	G 1	G 1	54.0	19.0	18	41	0.243

3900

90° Adjustable stud elbow BSP-BSP (ISO 1179)

SDE

Part number	Dimensions						CH1	CH2	Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L1			
3900-02-02	6	1/4"	G 1/8	G 1/8	27.0	22	12	14	0.028
3900-04-02	8-6	5/16"-1/4"	G 1/8	G 1/4	33.0	24.5	14	19	0.045
3900-04-04	8	5/16"	G 1/4	G 1/4	33.0	27	14	19	0.050
3900-04-06	8-10	5/16"-3/8"	G 3/8	G 1/4	35.0	32	19	19	0.084
3900-06-02	10-6	3/8"-1/4"	G 1/8	G 3/8	37.0	27	19	22	0.087
3900-06-04	10-8	3/8"-5/16"	G 1/4	G 3/8	37.0	29.5	19	22	0.091
3900-06-06	10	3/8"	G 3/8	G 3/8	37.0	32	19	22	0.094
3900-06-08	10-12	3/8"-1/2"	G 1/2	G 3/8	40.0	36	22	22	0.140
3900-08-04	12-8	1/2"-5/16"	G 1/4	G 1/2	43.0	31.5	22	27	0.135
3900-08-06	12-10	1/2"-3/8"	G 3/8	G 1/2	43.0	34	22	27	0.142
3900-08-08	12	1/2"	G 1/2	G 1/2	43.0	36	22	27	0.147
3900-08-12	12-20	1/2"-3/4"	G 3/4	G 1/2	46.5	42	27	27	0.224
3900-12-06	20-10	3/4"-3/8"	G 3/8	G 3/4	50.0	37	27	36	0.231
3900-12-08	20-12	3/4"-1/2"	G 1/2	G 3/4	50.0	39	27	36	0.239
3900-12-12	20	3/4"	G 3/4	G 3/4	50.0	42	27	36	0.248
3900-12-16	20-25	3/4"-1"	G 1	G 3/4	50.0	44	33	36	0.310
3900-16-12	25-20	1"-3/4"	G 3/4	G 1	53.0	44	33	41	0.370
3900-16-16	25	1"	G 1	G 1	53.0	46	33	41	0.374
3900-16-20	25-32	1"-1.1/4"	G 1 1/4	G 1	55.5	52	41	41	0.469
3900-20-16	32-25	1.1/4"-1"	G 1	G 1 1/4	58.0	49	41	50	564.000
3900-20-20	32	1.1/4"	G 1 1/4	G 1 1/4	58.0	52	41	50	0.658
3900-24-24	38	1.1/2"	G 1 1/2	G 1 1/2	63.0	59	50	55	0.970

3255

**Adjustable 90° elbow Swivel
female BSP-BSP
(ISO 1179)**

SWSDE

Part number	Dimensions									Weight kg/unit
	Ø									
	tube mm	tube inch	F	F1	L	L1	CH1	CH2	CH3	
3255-02-02	6	1/4"	G 1/8	G 1/8	27.0	20	12	14	14	0.021
3255-04-04	8	5/16"	G 1/4	G 1/4	33.0	25	14	19	19	0.049
3255-06-06	10	3/8"	G 3/8	G 3/8	37.0	30	19	22	22	0.091
3255-08-08	12	1/2"	G 1/2	G 1/2	43.0	34	22	27	27	0.143
3255-12-12	20	3/4"	G 3/4	G 3/4	50.0	40	27	36	32	0.245
3255-16-16	25	1"	G 1	G 1	53.0	43	33	41	41	0.368
3255-20-20	32	1.1/4"	G 1 1/4	G 1 1/4	58.0	49	41	50	50	0.621
3255-24-24	38	1.1/2"	G 1 1/2	G 1 1/2	63.0	60	50	55	55	0.955

3950

45° Adjustable stud elbow BSP-BSP (ISO 1179)

SDE45

Part number	Dimensions						CH1	CH2	Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L1			
3950-02-02	6	1/4"	G 1/8	G 1/8	27.0	20	12	14	0.028
3950-04-02	8-6	5/16"-1/4"	G 1/8	G 1/4	28.5	21.5	14	19	0.045
3950-04-04	8	5/16"	G 1/4	G 1/4	30.0	21.5	14	19	0.050
3950-06-04	10-8	3/8"-5/16"	G 1/4	G 3/8	31.5	26	19	22	0.091
3950-06-06	10	3/8"	G 3/8	G 3/8	33.5	26	19	22	0.094
3950-08-06	12-10	1/2"-3/8"	G 3/8	G 1/2	36.0	29	22	27	0.142
3950-08-08	12	1/2"	G 1/2	G 1/2	39.0	29	22	27	0.147
3950-12-08	20-12	3/4"-1/2"	G 1/2	G 3/4	41.5	44	27	36	0.239
3950-12-12	20	3/4"	G 3/4	G 3/4	44.0	33	27	36	0.248
3950-16-12	25-20	1"-3/4"	G 3/4	G 1	45.5	37.5	33	41	0.370
3950-16-16	25	1"	G 1	G 1	47.0	37.5	33	41	0.374
3950-20-16	32-25	1.1/4"-1"	G 1	G 1 1/4	49.5	38	41	50	0.564
3950-20-20	32	1.1/4"	G 1 1/4	G 1 1/4	52.0	38	41	50	0.658

Adjustable stud Run Tee BSP-BSP (ISO 1179)

SDRT

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L1	CH1	CH2	
3600-02-02	6	1/4"	G 1/8	G 1/8	27.0	22	12	14	0.038
3600-04-02	8-6	5/16"-1/4"	G 1/8	G 1/4	33.0	24.5	14	19	0.061
3600-04-04	8	5/16"	G 1/4	G 1/4	33.0	27	14	19	0.068
3600-04-06	8-10	5/16"-3/8"	G 3/8	G 1/4	35.0	32	19	19	0.113
3600-06-04	10-8	3/8"-5/16"	G 1/4	G 3/8	37.0	29.5	19	22	0.123
3600-06-06	10	3/8"	G 3/8	G 3/8	37.0	32	19	22	0.127
3600-06-08	10-12	3/8"-1/2"	G 1/2	G 3/8	40.0	36	22	22	0.189
3600-08-06	12-10	1/2"-3/8"	G 3/8	G 1/2	43.0	34	22	27	0.192
3600-08-08	12	1/2"	G 1/2	G 1/2	43.0	36	22	27	0.199
3600-08-12	12-20	1/2"-3/4"	G 3/4	G 1/2	46.5	42	27	27	0.302
3600-12-08	20-12	3/4"-1/2"	G 1/2	G 3/4	50.0	39	27	36	0.323
3600-12-12	20	3/4"	G 3/4	G 3/4	50.0	42	27	36	0.335
3600-12-16	20-25	3/4"-1"	G 1	G 3/4	50.0	44	33	36	0.419
3600-16-12	25-20	1"-3/4"	G 3/4	G 1	53.0	44	33	41	0.500
3600-16-16	25	1"	G 1	G 1	53.0	46	33	41	0.505
3600-16-20	25-32	1"-1.1/4"	G 1 1/4	G 1	55.5	52	41	41	0.633
3600-20-20	32	1.1/4"	G 1 1/4	G 1 1/4	58.0	52	41	50	0.888
3600-24-24	38	1.1/2"	G 1 1/2	G 1 1/2	63.0	59	50	55	1.310

3605

Adjustable stud Branch Tee BSP-BSP (ISO 1179)

SDBT

Part number	Dimensions						CH1	CH2	Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L1			
3605-02-02	6	1/4"	G 1/8	G 1/8	27.0	22	12	14	0.038
3605-04-02	8-6	5/16"-1/4"	G 1/8	G 1/4	33.0	24.5	14	19	0.061
3605-04-04	8	5/16"	G 1/4	G 1/4	33.0	27	14	19	0.068
3605-04-06	8-10	5/16"-3/8"	G 3/8	G 1/4	35.0	32	19	19	0.113
3605-06-04	10-8	3/8"-5/16"	G 1/4	G 3/8	37.0	29.5	19	22	0.123
3605-06-06	10	3/8"	G 3/8	G 3/8	37.0	32	19	22	0.127
3605-06-08	10-12	3/8"-1/2"	G 1/2	G 3/8	40.0	36	22	22	0.189
3605-08-06	12-10	1/2"-3/8"	G 3/8	G 1/2	43.0	34	22	27	0.192
3605-08-08	12	1/2"	G 1/2	G 1/2	43.0	36	22	27	0.199
3605-08-12	12-20	1/2"-3/4"	G 3/4	G 1/2	46.5	42	27	27	0.302
3605-12-08	20-12	3/4"-1/2"	G 1/2	G 3/4	50.0	39	27	36	0.323
3605-12-12	20	3/4"	G 3/4	G 3/4	50.0	42	27	36	0.335
3605-12-16	20-25	3/4"-1"	G 1	G 3/4	50.0	44	33	36	0.419
3605-16-12	25-20	1"-3/4"	G 3/4	G 1	53.0	44	33	41	0.500
3605-16-16	25	1"	G 1	G 1	53.0	46	33	41	0.505
3605-16-20	25-32	1"-1.1/4"	G 1 1/4	G 1	55.5	52	41	41	0.633
3605-20-20	32	1.1/4"	G 1 1/4	G 1 1/4	58.0	52	41	50	0.888
3605-24-24	38	1.1/2"	G 1 1/2	G 1 1/2	63.0	59	50	55	1.310

Male stud connector BSP-Metric

SDS

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L2	L3	CH1	
1805-02-10	6	1/4"	G 1/8	M 10x1	22.5	8.0	8	14	0.013
1805-04-10	8	5/16"	G 1/4	M 10x1	27.0	11.0	8	19	0.031
1805-04-12	8	5/16"	G 1/4	M 12x1,5	31.0	11.0	10	19	0.033
1805-04-14	8	5/16"	G 1/4	M 14x1,5	31.0	11.0	10	19	0.030
1805-04-16	8	5/16"	G 1/4	M 16x1,5	31.0	11.0	11	22	0.039
1805-04-18	8	5/16"	G 1/4	M 18x1,5	34.0	11.0	11	24	0.049
1805-04-22	8	5/16"	G 1/4	M 22x1,5	36.0	11.0	12	27	0.061
1805-06-12	10	3/8"	G 3/8	M 12x1,5	33.5	12.0	10	22	0.043
1805-06-14	10	3/8"	G 3/8	M 14x1,5	33.5	12.0	10	22	0.044
1805-06-16	10	3/8"	G 3/8	M 16x1,5	33.5	12.0	11	22	0.046
1805-06-18	10	3/8"	G 3/8	M 18x1,5	34.5	12.0	11	24	0.055
1805-06-20	10	3/8"	G 3/8	M 20x1,5	36.5	12.0	12	27	0.061
1805-06-22	10	3/8"	G 3/8	M 22x1,5	36.5	12.0	12	27	0.068
1805-08-14	12	1/2"	G 1/2	M 14x1,5	37.0	14.0	10	27	0.058
1805-08-16	12	1/2"	G 1/2	M 16x1,5	37.0	14.0	11	27	0.060
1805-08-18	12	1/2"	G 1/2	M 18x1,5	37.0	14.0	11	27	0.066
1805-08-20	12	1/2"	G 1/2	M 20x1,5	39.0	14.0	12	27	0.069
1805-08-22	12	1/2"	G 1/2	M 22x1,5	39.0	14.0	12	27	0.070
1805-12-18	20	3/4"	G 3/4	M 18x1,5	39.0	16.0	11	32	0.111
1805-12-20	20	3/4"	G 3/4	M 20x1,5	41.0	16.0	12	32	0.115
1805-12-22	20	3/4"	G 3/4	M 22x1,5	41.0	16.0	12	32	0.119
1805-12-26	20	3/4"	G 3/4	M 26x1,5	43.0	16.0	12	32	0.124
1805-12-30	20	3/4"	G 3/4	M 30x1,5	44.0	16.0	14	36	0.166
1805-16-22	25	1"	G 1	M 22x1,5	41.0	19.0	12	41	0.165
1805-16-26	25	1"	G 1	M 26x1,5	46.0	19.0	12	41	0.204
1805-16-38	25	1"	G 1	M 38 x1,5	46.0	19.0	14	46	0.243

3510

Male stud connector BSP-Metric with O'ring and retaining ring

SDS

Part number	Dimensions							Weight kg/unit	
	Ø								
	tube mm	tube inch	F	F1	L	L2	L3		CH1
3510-10-02	6	1/4"	G 1/8	M 10x1	24.0	8.0	8.5	14	0.018
3510-12-02	6	1/4"	G 1/8	M 12x1,5	27.0	8.0	11	17	0.026
3510-14-04	8	5/16"	G 1/4	M 14x1,5	31.5	11.0	11	19	0.037
3510-16-04	8	5/16"	G 1/4	M 16x1,5	33.0	11.0	11.5	22	0.044
3510-16-06	10	3/8"	G 3/8	M 16x1,5	34.0	12.0	11.5	22	0.051
3510-18-06	10	3/8"	G 3/8	M 18x1,5	36.0	12.0	12.5	24	0.060
3510-18-08	12	1/2"	G 1/2	M 18x1,5	38.0	14.0	12.5	24	0.078
3510-22-08	12	1/2"	G 1/2	M 22x1,5	39.5	14.0	13	27	0.104
3510-22-12	20	3/4"	G 3/4	M 22x1,5	42.0	16.0	13	30	0.125
3510-27-12	20	3/4"	G 3/4	M 27x2	44.5	16.0	16	36	0.159
3510-27-16	25	1"	G 1	M 27x2	47.5	19.0	16	36	0.204
3510-33-16	25	1"	G 1	M 33x2	52.0	19.0	16	41	0.269
3510-42-20	32	1.1/4"	G 1 1/4	M 42x2	55.0	20.0	16	50	0.427
3510-48-24	38	1.1/2"	G 1 1/2	M 48x2	59.5	22.0	17.5	55	0.534

90° Adjustable stud elbow BSP-Metric with O'ring and retaining ring

SWSDE

[illegible]

3410

**45° Adjustable stud elbow
BSP-Metric with O'ring
and retaining ring**

SDE45

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L1	CH1	CH2	
3410-10-02	6	1/4"	G 1/8	M 10x1	27.0	20	12	14	0.029
3410-12-02	6	1/4"	G 1/8	M 12x1,5	28.5	20	12	17	0.045
3410-14-04	8	5/16"	G 1/4	M 14x1,5	32.0	21.5	14	19	0.049
3410-16-04	8	5/16"	G 1/4	M 16x1,5	33.0	21.5	14	22	0.055
3410-16-06	10	3/8"	G 3/8	M 16x1,5	34.0	26	19	22	0.094
3410-18-06	10	3/8"	G 3/8	M 18x1,5	35.0	26	19	24	0.135
3410-18-08	12	1/2"	G 1/2	M 18x1,5	36.0	29	22	24	0.141
3410-22-08	12	1/2"	G 1/2	M 22x1,5	38.0	29	22	27	0.147
3410-22-12	20	3/4"	G 3/4	M 22x1,5	41.5	33	27	27	0.185
3410-27-12	20	3/4"	G 3/4	M 27x2	45.0	33	27	32	0.249
3410-27-16	25	1"	G 1	M 27x2	46.5	37.5	33	32	0.350
3410-33-16	25	1"	G 1	M 33x2	48.0	37.5	33	41	0.367
3410-42-20	32	1.1/4"	G 1 1/4	M 42x2	53.5	38	41	50	0.645
3410-48-24	38	1.1/2"	G 1 1/2	M 48x2	58.0	43	50	55	1.012

Adjustable stud Run Tee BSP-Metric with O'ring and retaining ring

SDRT

[illegible]

3615

Adjustable stud Branch Tee BSP-Metric with O'ring and retaining ring

SDBT

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L1	CH1	CH2	
3615-10-02	6	1/4"	G 1/8	M 10x1	29.0	22	12	14	0.039
3615-12-02	6	1/4"	G 1/8	M 12x1,5	31.0	22	12	17	0.060
3615-14-04	8	5/16"	G 1/4	M 14x1,5	34.0	27	14	19	0.065
3615-16-04	8	5/16"	G 1/4	M 16x1,5	38.0	29.5	14	22	0.073
3615-16-06	10	3/8"	G 3/8	M 16x1,5	38.0	32	19	22	0.125
3615-18-06	10	3/8"	G 3/8	M 18x1,5	41.0	34	19	24	0.180
3615-18-08	12	1/2"	G 1/2	M 18x1,5	41.0	36	22	24	0.188
3615-22-08	12	1/2"	G 1/2	M 22x1,5	43.0	36	22	27	0.196
3615-22-12	20	3/4"	G 3/4	M 22x1,5	47.5	42	27	27	0.247
3615-27-12	20	3/4"	G 3/4	M 27x2	52.0	42	27	32	0.332
3615-27-16	25	1"	G 1	M 27x2	53.0	46	33	32	0.467
3615-33-16	25	1"	G 1	M 33x2	54.0	46	33	41	0.489
3615-42-20	32	1.1/4"	G 1 1/4	M 42x2	60.0	52	41	50	0.860
3615-48-24	38	1.1/2"	G 1 1/2	M 48x2	67.0	59	50	55	1.349

Male stud connector BSP-UNF (ISO 11926)

SDS

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L2	L3	CH1	
3520-04-02	6	1/4"	G 1/8	7/16-20 UNF	26.0	8.0	9	14	0.021
3520-05-02	8-6	5/16"-1/4"	G 1/8	1/2-20 UNF	26.0	8.0	9	17	0.025
3520-06-04	10-8	3/8"-5/16"	G 1/4	9/16-18 UNF	30.0	11.0	10	17	0.029
3520-08-04	12-8	1/2"-5/16"	G 1/4	3/4-16 UNF	31.5	11.0	11	22	0.051
3520-08-06	12-10	1/2"-3/8"	G 3/8	3/4-16 UNF	33.0	12.0	11	22	0.053
3520-08-08	12	1/2"	G 1/2	3/4-16 UNF	36.5	14.0	11	22	0.063
3520-10-06	16-10	5/8"-3/8"	G 3/8	7/8-14 UNF	35.5	12.0	12.5	27	0.079
3520-10-08	16-12	5/8"-1/2"	G 1/2	7/8-14 UNF	38.0	14.0	12.5	27	0.101
3520-10-12	16-20	5/8"-3/4"	G 3/4	7/8-14 UNF	41.0	16.0	12.5	32	0.122
3520-12-08	20-12	3/4"-1/2"	G 1/2	1 1/16-12 UN	41.5	16.0	15	32	0.131
3520-12-12	20	3/4"	G 3/4	1 1/16-12 UN	43.5	16.0	15	32	0.135
3520-12-16	20-25	3/4"-1"	G 1	1 1/16-12 UN	47.5	19.0	15	36	0.178
3520-16-12	25-20	1"-3/4"	G 3/4	1 5/16-12 UN	44.5	16.0	15	41	0.191
3520-16-16	25	1"	G 1	1 5/16-12 UN	47.5	19.0	15	41	0.204
3520-20-20	32	1.1/4"	G 1 1/4	1 5/8 UN	50.5	20.0	15	50	0.359
3520-24-24	38	1.1/2"	G 1 1/2	1 7/8-12 UN	54.5	22.0	15	55	0.464

3920

90° Adjustable stud elbow BSP-UNF (ISO 11926)

SDE

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L1	CH1	CH2	
3920-04-02	6	1/4"	G 1/8	7/16-20 UNF	27.0	22	12	17	0.031
3920-05-02	8-6	5/16"-1/4"	G 1/8	1/2-20 UNF	30.0	25	14	17	0.041
3920-06-04	10-8	3/8"-5/16"	G 1/4	9/16-18 UNF	33.0	27	14	19	0.053
3920-08-04	12-8	1/2"-5/16"	G 1/4	3/4-16 UNF	37.0	29.5	19	24	0.075
3920-08-06	12-10	1/2"-3/8"	G 3/8	3/4-16 UNF	37.0	32	19	24	0.105
3920-08-08	12	1/2"	G 1/2	3/4-16 UNF	37.0	36	22	24	0.118
3920-10-06	16-10	5/8"-3/8"	G 3/8	7/8-14 UNF	43.0	34	22	27	0.135
3920-10-08	16-12	5/8"-1/2"	G 1/2	7/8-14 UNF	43.0	36	22	27	0.159
3920-10-12	16-20	5/8"-3/4"	G 3/4	7/8-14 UNF	43.0	42	27	27	0.178
3920-12-08	20-12	3/4"-1/2"	G 1/2	1 1/16-12 UN	50.0	39	27	36	0.211
3920-12-12	20	3/4"	G 3/4	1 1/16-12 UN	50.0	42	27	36	0.258
3920-16-12	25-20	1"-3/4"	G 3/4	1 5/16-12 UN	53.0	44	33	41	0.298
3920-16-16	25	1"	G 1	1 5/16-12 UN	53.0	46	33	41	0.367
3920-20-20	32	1.1/4"	G 1 1/4	1 5/8 UN	58.0	52	41	50	0.615
3920-24-24	38	1.1/2"	G 1 1/2	1 7/8-12 UN	63.0	59	50	55	0.994

45° Adjustable stud elbow BSP-UNF (ISO 11926)

SDE45

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L1	CH1	CH2	
3420-04-02	6	1/4"	G 1/8	7/16-20 UNF	27.0	20	12	17	0.031
3420-05-02	8-6	5/16"-1/4"	G 1/8	1/2-20 UNF	28.0	21	14	17	0.041
3420-06-04	10-8	3/8"-5/16"	G 1/4	9/16-18 UNF	30.0	21.5	14	19	0.053
3420-08-04	12-8	1/2"-5/16"	G 1/4	3/4-16 UNF	33.5	23.5	19	24	0.075
3420-08-06	12-10	1/2"-3/8"	G 3/8	3/4-16 UNF	33.5	26	19	24	0.105
3420-08-08	12	1/2"	G 1/2	3/4-16 UNF	36.0	29	22	24	0.118
3420-10-06	16-10	5/8"-3/8"	G 3/8	7/8-14 UNF	39.0	27.5	22	27	0.135
3420-10-08	16-12	5/8"-1/2"	G 1/2	7/8-14 UNF	39.0	29	22	27	0.159
3420-10-12	16-20	5/8"-3/4"	G 3/4	7/8-14 UNF	41.5	33	27	27	0.178
3420-12-08	20-12	3/4"-1/2"	G 1/2	1 1/16-12 UN	44.0	31	27	36	0.211
3420-12-12	20	3/4"	G 3/4	1 1/16-12 UN	44.0	33	27	36	0.258
3420-16-12	25-20	1"-3/4"	G 3/4	1 5/16-12 UN	47.0	34	33	41	0.298
3420-16-16	25	1"	G 1	1 5/16-12 UN	47.0	35	33	41	0.367
3420-20-20	32	1.1/4"	G 1 1/4	1 5/8 UN	52.0	38	41	50	0.615
3420-24-24	38	1.1/2"	G 1 1/2	1 7/8-12 UN	55.0	41	50	55	0.994

3620

Adjustable stud Run Tee BSP-UNF (ISO 11926)

SDRT

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L1	CH1	CH2	
3620-04-02	6	1/4"	G 1/8	7/16-20 UNF	27.0	22	12	17	0.041
3620-05-02	8-6	5/16"-1/4"	G 1/8	1/2-20 UNF	30.0	25	14	17	0.055
3620-06-04	10-8	3/8"-5/16"	G 1/4	9/16-18 UNF	33.0	27	14	19	0.071
3620-08-04	12-8	1/2"-5/16"	G 1/4	3/4-16 UNF	37.0	29.5	19	24	0.100
3620-08-06	12-10	1/2"-3/8"	G 3/8	3/4-16 UNF	37.0	32	19	24	0.140
3620-08-08	12	1/2"	G 1/2	3/4-16 UNF	37.0	36	22	24	0.157
3620-10-06	16-10	5/8"-3/8"	G 3/8	7/8-14 UNF	43.0	34	22	27	0.180
3620-10-08	16-12	5/8"-1/2"	G 1/2	7/8-14 UNF	43.0	36	22	27	0.212
3620-10-12	16-20	5/8"-3/4"	G 3/4	7/8-14 UNF	43.0	42	27	27	0.237
3620-12-08	20-12	3/4"-1/2"	G 1/2	1 1/16-12 UN	50.0	39	27	36	0.281
3620-12-12	20	3/4"	G 3/4	1 1/16-12 UN	50.0	42	27	36	0.344
3620-16-12	25-20	1"-3/4"	G 3/4	1 5/16-12 UN	53.0	44	33	41	0.397
3620-16-16	25	1"	G 1	1 5/16-12 UN	53.0	46	33	41	0.489
3620-20-20	32	1.1/4"	G 1 1/4	1 5/8 UN	58.0	52	41	50	0.820
3620-24-24	38	1.1/2"	G 1 1/2	1.7/8-12 UN	63.0	59	50	55	1.325

Adjustable stud Branch Tee

BSP-UNF

(ISO 11926)

SDRT

Part number	Dimensions						CH1	CH2	Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L1			
3625-04-02	6	1/4"	G 1/8	7/16-20 UNF	27.0	22	12	17	0.041
3625-05-02	8-6	5/16"-1/4"	G 1/8	1/2-20 UNF	30.0	25	14	17	0.055
3625-06-04	10-8	3/8"-5/16"	G 1/4	9/16-18 UNF	33.0	27	14	19	0.071
3625-08-04	12-8	1/2"-5/16"	G 1/4	3/4-16 UNF	37.0	29.5	19	24	0.100
3625-08-06	12-10	1/2"-3/8"	G 3/8	3/4-16 UNF	37.0	32	19	24	0.140
3625-08-08	12	1/2"	G 1/2	3/4-16 UNF	37.0	36	22	24	0.157
3625-10-06	16-10	5/8"-3/8"	G 3/8	7/8-14 UNF	43.0	34	22	27	0.180
3625-10-08	16-12	5/8"-1/2"	G 1/2	7/8-14 UNF	43.0	36	22	27	0.212
3625-10-12	16-20	5/8"-3/4"	G 3/4	7/8-14 UNF	43.0	42	27	27	0.237
3625-12-08	20-12	3/4"-1/2"	G 1/2	1 1/16-12 UN	50.0	39	27	36	0.281
3625-12-12	20	3/4"	G 3/4	1 1/16-12 UN	50.0	42	27	36	0.344
3625-16-12	25-20	1"-3/4"	G 3/4	1 5/16-12 UN	53.0	44	33	41	0.397
3625-16-16	25	1"	G 1	1 5/16-12 UN	53.0	46	33	41	0.489
3625-20-20	32	1.1/4"	G 1 1/4	1 5/8 UN	58.0	52	41	50	0.820
3625-24-24	38	1.1/2"	G 1 1/2	1.7/8-12 UN	63.0	59	50	55	1.325

1550

BSP threaded Banjo Eye

Part number	Dimensions					Weight kg/unit
	F1	D	L	H	S	
1550-04-04	G 1/4	G 1/4	22.0	14.5	24	0.030
1550-06-06	G 3/8	G 3/8	28.0	17	28	0.045
1550-08-06	G 3/8	G 1/2	32.5	22	36	0.086
1550-08-08	G 1/2	G 1/2	32.0	22	36	0.092
1550-12-12	G 3/4	G 3/4	40.0	29	45	0.166
1550-16-16	G 1	G 1	46.0	35	58	0.366

BSP threaded Banjo Eye
with guide

Part number	Dimensions				Weight kg/unit
	F	D	L	S	
1560-04-04	G 1/4	13.5	32.0	24	0.039
1560-06-06	G 3/8	17	38.0	28	0.058
1560-08-08	G 1/2	21	55.0	36	0.120
1560-12-12	G 3/4	26.5	53.0	45	0.216

1450

Weldable BSP Banjo Eye

Part number	Dimensions					Weight kg/unit
	D	L	H	S	Q	
1450-04-08	G 1/4	24.0	14	24	8	0.034
1450-04-10	G 1/4	24.0	14	24	10	0.030
1450-06-12	G 3/8	28.0	17	28	12	0.039
1450-08-15	G 1/2	32.0	22	36	15	0.075
1450-08-16	G 1/2	32.0	22	36	16	0.073
1450-12-22	G 3/4	40.0	29	45	22	0.105
1450-16-27	G 1	45.0	35	58	27	0.170

Male stud connector BSPT

S

Part number	Dimensions						Weight kg/unit
	Ø						
	tube mm	tube inch	F	L	L2	CH1	
1860-02-02	6	1/4"	R 1/8 K	24.5	9.0	12	0.014
1860-04-04	8	5/16"	R 1/4 K	35.0	14.0	15	0.034
1860-06-06	10	3/8"	R 3/8 K	37.5	14.0	19	0.049
1860-08-08	12	1/2"	R 1/2 K	46.0	18.0	22	0.082
1860-12-12	20	3/4"	R 3/4 K	53.0	19.0	27	0.136
1860-16-16	25	1"	R 1 K	60.0	24.0	36	0.224
1860-20-20	32	1.1/4"	R 1 1/4 K	68.0	24.5	46	0.361
1860-24-24	38	1.1/2"	R 1 1/2 K	71.0	25.5	50	0.448
1860-32-32	50	2"	R 2 K	82.0	30.0	65	0.816

4626

90° Male stud Elbow BSPT

E

Part number	Dimensions					Weight kg/unit
	Ø					
	tube mm	tube inch	F	L	CH1	
4626-02	6	1/4"	R 1/8 K	19.5	12	0.015
4626-04	8	5/16"	R 1/4 K	27.5	14	0.042
4626-06	10	3/8"	R 3/8 K	31.0	19	0.093
4626-08	12	1/2"	R 1/2 K	36.0	22	0.142
4626-12	20	3/4"	R 3/4 K	40.5	27	0.231

4625

90° Male BSPT/Female BSP Elbow

E

Part number	Dimensions						Weight kg/unit	
	Ø							
	tube mm	tube inch	F	F1	L	L1		CH1
4625-02	6	1/4"	G 1/8	R 1/8 K	23.5	17	14	0.048
4625-04	8	5/16"	G 1/4	R 1/4 K	29.0	22.5	19	0.065
4625-06	10	3/8"	G 3/8	R 3/8 K	33.5	26	22	0.008
4625-08	12	1/2"	G 1/2	R 1/2 K	38.0	31	27	0.147
4625-12	20	3/4"	G 3/4	R 3/4 K	45.0	34.5	33	0.210
4625-16	25	1"	G 1	R 1 K	55.0	41	41	0.402

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ORFS



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90° Adjustable
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stud elbow

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Adjustable stud
Branch Tee with O'ring
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Adjustable stud
Run Tee with O'ring
and retaining ring

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Male stud connector

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90° Male stud
elbows

48



6600

Male plug

49

6610

Famale plug

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M0

Braze-on straight
connector

51

6010

ORFS nut
(ISO 8434-3)

NA

Part number	Dimensions					Weight kg/unit
	Ø		Thread			
	tube mm	tube inch	F	L	CH1	
6010-06	6	1/4"	9/16-18	15.0	17	0,014
6010-09	8-10	5/16"-3/8"	11/16-16	17.0	22	0,017
6010-11	12	1/2"	13/16-16	20.0	24	0,029
6010-13	14-16	5/8"	1-14	24.0	30	0,046
6010-14	18-20	3/4"	1.3/16-12	26.5	36	0,069
6010-15	22-25	1"	1.7/16-12	27.5	41	0,109
6010-21	28-32	1.1/4"	1.11/16-12	27.5	50	0,126
6010-32	35-38	1.1/2"	2-12	27.5	60	0,195

Metric sleeve
(ISO 8434-3)

SL

Part number	Dimensions			Weight kg/unit
	Ø			
	tube mm	D	L	
6015-06	06	06	8.5	0,004
6015-08	08	08	9.5	0,004
6015-10	10	10	9.5	0,005
6015-12	12	12	11.5	0,006
6015-14	14	14	11.5	0,01
6015-15	15	15	11.5	0,009
6015-16	16	16	11.5	0,008
6015-18	18	18	13.0	0,014
6015-20	20	20	13.0	0,015
6015-22	22	22	14.5	0,02
6015-25	25	25	14.5	0,023
6015-28	28	28	14.0	0,024
6015-30	30	30	14.0	0,025
6015-32	32	32	14.0	0,026
6015-35	35	35	13.5	0,036
6015-38	38	38	13.5	0,044

6000

Male union
(ISO 8434-3)

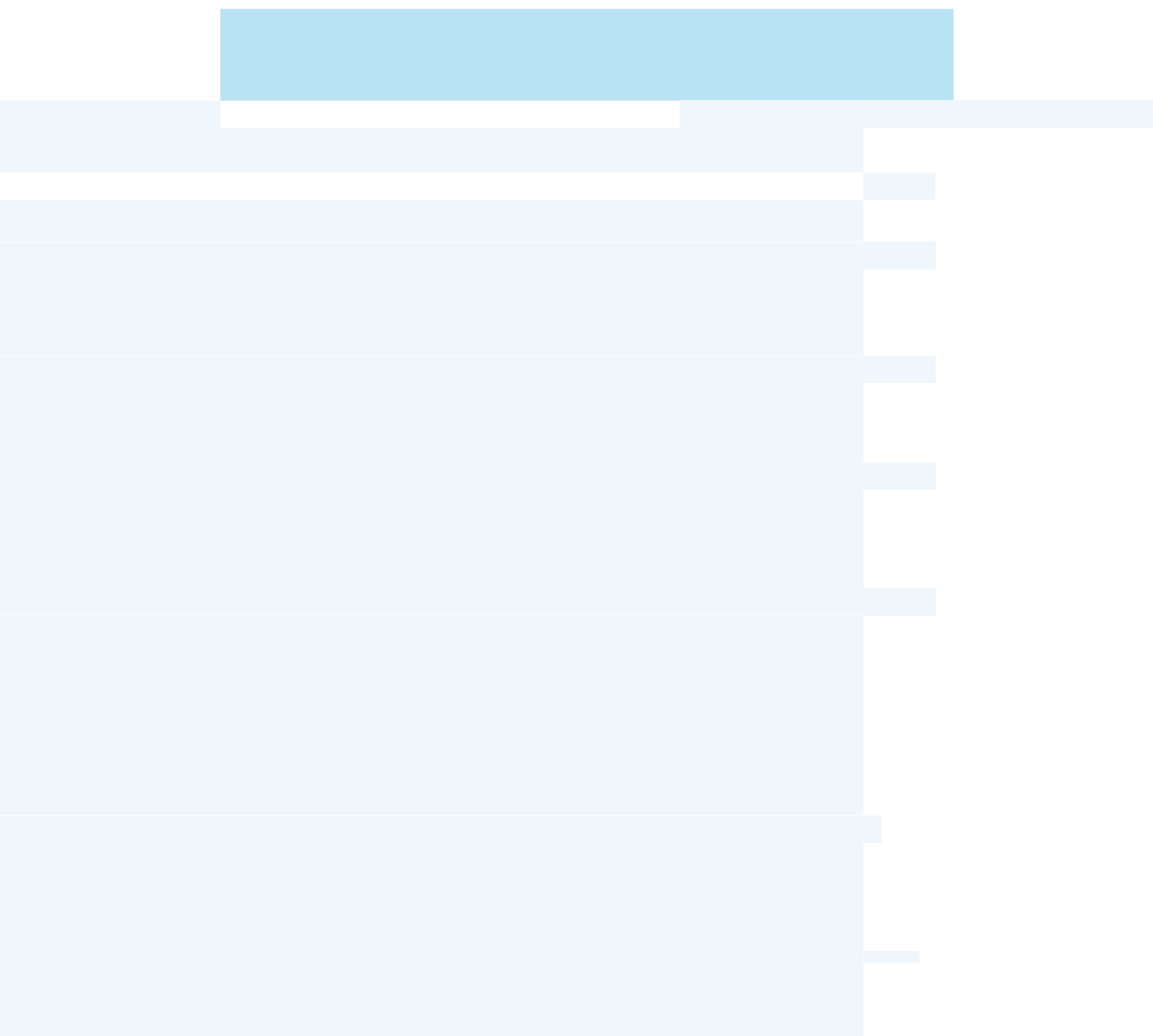
S

Part number	Dimensions								Weight kg/unit
	Ø		Thread						
	tube mm	tube inch	F	F1	L	L2	L3	CH1	
6000-06	6	1/4"	9/16-18	9/16-18	27.5	10	10	17	0,028
6000-09	8-10	5/16"-3/8"	11/16-16	11/16-16	31.0	11	11	19	0,049
6000-11	12	1/2"	13/16-16	13/16-16	35.5	13	13	22	0,077
6000-11-09	8-12	5/16"-1/2"	13/16-16	11/16-16	33.5	13	11	22	0,067
6000-13	14-16	5/8"	1-14	1-14	42.5	15.5	15.5	27	0,129
6000-13-11	12-16	5/8"-1/2"	1-14	13/16-16	40.0	15.5	13	27	0,112
6000-14	18-20	3/4"	1.3/16-12	1.3/16-12	47.0	17	17	32	0,204
6000-14-13	14-20	5/8"-3/4"	1.3/16-12	1-14	45.5	17	15.5	32	0,186
6000-15	22-25	1"	1.7/16-12	1.7/16-12	49.5	17.5	17.5	41	0,291
6000-15-14	18-25	3/4"-1"	1.7/16-12	1.3/16-12	49.0	17.5	17	41	0,285
6000-21	28-32	1.1/4"	1.11/16-12	1.11/16-12	51.5	17.5	17.5	46	0,299
6000-21-15	25-32	1.1/4"	1.11/16-12	1.7/16-12	51.5	17.5	17.5	46	0,28
6000-32	35-38	1.1/2"	2-12	2-12	53.0	17.5	17.5	55	0,552

6300

90° Union Elbow
(ISO 8434-3)

E



6350

ORFS Union Tee
(ISO 8434-3)

T

Part number	Dimensions				Weight kg/unit	
	Ø		Thread			
	tube mm	tube inch	F	L1		CH1
6350-06	6	1/4"	9/16-18	21	14	0,066
6350-09	8-10	5/16"-3/8"	11/16-16	25	19	0,114
6350-11	12	1/2"	13/16-16	28	19	0,199
6350-13	14-16	5/8"	1-14	33.5	27	0,239
6350-14	18-20	3/4"	1.3/16-12	37.5	27	0,321
6350-15	22-25	1"	1.7/16-12	41.5	36	0,488
6350-21	28-32	1.1/4"	1.11/16-12	44.5	41	0,768
6350-32	35-38	1.1/2"	2-12	49	50	0,866

ORFS Union Cross (ISO 8434-3)

K

Part number	Dimensions					Weight kg/unit
	Ø		Thread			
	tube mm	tube inch	F	L1	CH1	
6550-06	6	1/4"	9/16-18	21	14	0,072
6550-09	8-10	5/16"-3/8"	11/16-16	25	19	0,14
6550-11	12	1/2"	13/16-16	28	19	0,225
6550-13	14-16	5/8"	1-14	33.5	27	0,288
6550-14	18-20	3/4"	1.3/16-12	37.5	27	0,32

6120

ORFS Swivel female - Male UN/UNF (ISO 11926)

SDSWS

Part number	Dimensions								Weight kg/unit
	Ø		Thread						
	tube mm	tube inch	F	F1	L	L3	CH1	CH3	
6120-04-06	6	1/4"	9/16-18	7/16-20	37.0	11	17	17	0,053
6120-06-09	8-10	5/16"-3/8"	11/16-16	9/16-18	40.0	12	19	22	0,066
6120-08-11	12	1/2"	13/16-16	3/4-16	50.0	14	22	24	0,11
6120-10-13	14-16	5/8"	1-14	7/8-14	54.0	16	27	30	0,173
6120-12-14	18-20	3/4"	1.3/16-12	1.1/16-12	59.0	18.5	32	36	0,275
6120-16-15	22-25	1"	1.7/16-12	1.5/16-12	68.0	18.5	41	41	0,462
6120-20-21	28-32	1.1/4"	1.11/16-12	1.5/8-12	68.0	18.5	46	50	0,622

6036

**ORFS Swivel female - Male
BSPP
(Form E ISO 1179-2)**

SWS

Part number	Dimensions								Weight kg/unit
	Ø		Thread						
	tube mm	tube inch	F	F1	L	L3	CH1	CH3	
6036-02-06	6	1/4"	9/16-18	G 1/8	34.0	8	14	17	0,043
6036-04-06	6	1/4"	9/16-18	G 1/4	38.0	12	19	17	0,059
6036-04-09	8-10	5/16"-3/8"	11/16-16	G 1/4	40.0	12	19	22	0,072
6036-04-11	12	1/2"	13/16-16	G 1/4	47.0	12	22	24	0,098
6036-06-09	8-10	5/16"-3/8"	11/16-16	G 3/8	40.0	12	22	22	0,086
6036-06-11	12	1/2"	13/16-16	G 3/8	47.0	12	22	24	0,104
6036-08-09	8-10	5/16"-3/8"	11/16-16	G 1/2	42.0	14	27	22	0,092
6036-08-11	12	1/2"	13/16-16	G 1/2	49.0	14	27	24	0,142
6036-08-13	14-16	5/8"	1-14	G 1/2	52.0	14	27	30	0,165
6036-12-13	14-16	5/8"	1-14	G 3/4	54.0	16	32	30	0,185
6036-12-14	18-20	3/4"	1.3/16-12	G 3/4	57.0	16	32	36	0,266
6036-16-15	22-25	1"	1.7/16-12	G 1	67.0	18	41	41	0,414
6036-20-21	28-32	1.1/4"	1.11/16-12	G 1 1/4	69.0	20	50	50	0,623
6036-24-32	35-38	1.1/2"	2-12	G 1 1/2	72.0	22	55	60	0,885

6850

ORFS Swivel female - Male Metric
(ISO 6149)

SDSWS

Part number	Dimensions								Weight kg/unit
	Ø		Thread						
	tube mm	tube inch	F	F1	L	L3	CH1	CH3	
6850-12-06	6	1/4"	9/16-18	M12x1,5	37.0	11	17	17	0,053
6850-16-09	8-10	5/16"-3/8"	11/16-16	M16x1,5	40.5	12.5	22	22	0,072
6850-18-11	12	1/2"	13/16-16	M18x1,5	49.5	14	24	24	0,11
6850-22-13	14-16	5/8"	1-14	M22x1,5	53.0	15	27	30	0,173
6850-27-14	18-20	3/4"	1.3/16-12	M27x2	59.5	18.5	32	36	0,275
6850-33-15	22-25	1"	1.7/16-12	M33x2	67.5	18.5	41	41	0,462
6850-42-21	28-32	1.1/4"	1.11/16-12	M42x2	68.0	19	50	50	0,622
6850-48-32	35-38	1.1/2"	2-12	M48x2	70.5	21.5	55	60	0,885

ORFS Straight swivel nut union (ISO 8434-3)

SWS

Part number	Dimensions						Weight kg/unit
	Ø		Thread				
	tube mm	tube inch	F	L	CH1	CH3	
6060-06-06	6	1/4"	9/16-18	40.4	17	17	0,053
6060-09-09	8-10	5/16"-3/8"	11/16-16	45.0	19	22	0,066
6060-11-11	12	1/2"	13/16-16	53.8	22	24	0,11
6060-13-13	14-16	5/8"	1-14	61.5	27	30	0,17
6060-14-14	18-20	3/4"	1.3/16-12	69.6	32	36	0,275

6056

ORFS Reducing male-female (ISO 8434-3)

SRDS

Part number	Dimensions							Weight kg/unit
	Ø		Thread					
	tube mm	tube inch	F	F1	L	CH1	CH3	
6056-09-06	10-06	3/8"-1/4"	11/16-16	9/16-18	19.5		22	0,021
6056-11-06	12-06	1/2"-1/4"	13/16-16	9/16-18	22.0	24		0,03
6056-11-09	12-10	1/2"-3/8"	13/16-16	11/16-16	22.5		24	0,033
6056-13-06	16-06	5/8"-1/4"	1-14	9/16-18	23.0	30		0,071
6056-13-09	16-08	5/8"-5/16"	1-14	11/16-16	24.0	30		0,073
6056-13-11	16-12	5/8"-1/2"	1-14	13/16-16	25.5	30		0,078
6056-14-06	20-06	3/4"-1/4"	1.3/16-12	9/16-18	25.0	36		0,085
6056-14-09	20-10	3/4"-3/8"	1.3/16-12	11/16-16	26.0	36		0,098
6056-14-11	20-12	3/4"-1/2"	1.3/16-12	13/16-16	27.5	36		0,105
6056-14-13	20-16	3/4"-5/8"	1.3/16-12	1-14	29.5		36	0,085
6056-15-11	25-12	1"-1/2"	1.7/16-12	13/16-16	29.0	41		0,135
6056-15-13	25-16	1"-5/8"	1.7/16-12	1-14	32.0	41		0,14
6056-15-14	25-20	1"-3/4"	1.7/16-12	1.3/16-12	33.0		41	0,133
6056-21-14	30-20	1.1/4"-3/4"	1.11/16-12	1.3/16-12	33.5	50		0,15
6056-21-15	30-25	1.1/4"-1"	1.11/16-12	1.7/16-12	38.5		50	0,2
6056-32-15	38-25	1.1/2"-1"	2-12	1.7/16-12	34.0	60		0,42
6056-32-21	38-30	1.1/2"-1.1/4"	2-12	1.11/16-12	34.0	60		0,42

90° Swivel Elbow (ISO 8434-3)

SWE

Part number	Dimensions								Weight kg/unit
	Ø		Thread						
	tube mm	tube inch	F	F1	L	L1	CH1	CH3	
6205-06	6	1/4"	9/16-18	9/16-18	27.5	21	14	17	0,045
6205-09	8-10	5/16"-3/8"	11/16-16	11/16-16	31.0	25	19	22	0,084
6205-11	12	1/2"	13/16-16	13/16-16	38.0	28	19	24	0,126
6205-13	14-16	5/8"	1-14	1-14	43.0	33.5	27	30	0,221
6205-14	18-20	3/4"	1.3/16-12	1.3/16-12	47.5	37.5	27	36	0,275
6205-15	22-25	1"	1.7/16-12	1.7/16-12	54.0	41.5	36	41	0,541
6205-21	28-32	1.1/4"	1.11/16-12	1.11/16-12	59.0	44.5	41	50	0,557
6205-32	35-38	1.1/2"	2-12	2-12	62.0	49	50	60	0,75

6255

**45° Swivel Elbow
(ISO 8434-3)**

SWE45

Part number	Dimensions								Weight kg/unit
	Ø		Thread						
	tube mm	tube inch	F	F1	L	L1	CH1	CH3	
6255-06	6	1/4"	9/16-18	9/16-18	22.0	16	14	17	0,044
6255-09	8-10	5/16"-3/8"	11/16-16	11/16-16	26.5	19	19	22	0,082
6255-11	12	1/2"	13/16-16	13/16-16	31.0	20.5	19	24	0,11
6255-13	14-16	5/8"	1-14	1-14	36.5	23.5	27	30	0,19
6255-14	18-20	3/4"	1.3/16-12	1.3/16-12	41.5	26	27	36	0,215
6255-15	22-25	1"	1.7/16-12	1.7/16-12	46.5	30	36	41	0,3
6255-21	28-32	1.1/4"	1.11/16-12	1.11/16-12	46.5	32	41	50	0,5
6255-32	35-38	1.1/2"	2-12	2-12	48.5	37	50	60	0,745

6620

Swivel Run Tee (ISO 8434-3)

SWRT

Part number	Dimensions						CH1	CH3	Weight kg/unit
	Ø		Thread		L	L1			
	tube mm	tube inch	F	F1	L	L1	CH1	CH3	
6620-06	6	1/4"	9/16-18	9/16-18	27.5	21	14	17	0,066
6620-09	8-10	5/16"-3/8"	11/16-16	11/16-16	31.0	25	19	22	0,125
6620-11	12	1/2"	13/16-16	13/16-16	38.0	28	19	24	0,15
6620-13	14-16	5/8"	1-14	1-14	43.0	33.5	27	30	0,233
6620-14	18-20	3/4"	1.3/16-12	1.3/16-12	47.5	37.5	27	36	0,28
6620-15	22-25	1"	1.7/16-12	1.7/16-12	54.0	41.5	36	41	0,505
6620-21	28-32	1.1/4"	1.11/16-12	1.11/16-12	59.0	44.5	41	50	0,775
6620-32	35-38	1.1/2"	2-12	2-12	62.0	49	50	60	0,965

6630

Swivel Branch Tee (ISO 8434-3)

SWBT

Part number	Dimensions								Weight kg/unit
	Ø		Thread						
	tube mm	tube inch	F	F1	L	L1	CH1	CH3	
6630-06	6	1/4"	9/16-18	9/16-18	27.5	21	14	17	0,066
6630-09	8-10	5/16"-3/8"	11/16-16	11/16-16	31.0	25	19	22	0,125
6630-11	12	1/2"	13/16-16	13/16-16	38.0	28	19	24	0,15
6630-13	14-16	5/8"	1-14	1-14	43.0	33.5	27	30	0,233
6630-14	18-20	3/4"	1.3/16-12	1.3/16-12	47.5	37.5	27	36	0,28
6630-15	22-25	1"	1.7/16-12	1.7/16-12	54.0	41.5	36	41	0,505
6630-21	28-32	1.1/4"	1.11/16-12	1.11/16-12	59.0	44.5	41	50	0,775
6630-32	35-38	1.1/2"	2-12	2-12	62.0	49	50	60	0,965

6050

**Bulkhead union
(ISO 8434-3)**

BHS

Part number	Dimensions								Weight kg/unit
	Ø		Thread						
	tube mm	tube inch	F	L	L1	L2	CH1	CH2	
6050-06	6	1/4"	9/16-18	48.0	31.5	10	22	22	0,08
6050-09	8-10	5/16"-3/8"	11/16-16	53.0	34	11	27	27	0,14
6050-11	12	1/2"	13/16-16	58.5	36.5	13	30	30	0,155
6050-13	14-16	5/8"	1-14	66.5	40.5	15.5	36	36	0,31
6050-14	18-20	3/4"	1.3/16-12	69.0	41.5	17	41	41	0,34
6050-15	22-25	1"	1.7/16-12	70.0	42	17.5	46	46	0,436
6050-21	28-32	1.1/4"	1.11/16-12	70.0	42	17.5	50	50	0,51
6050-32	35-38	1.1/2"	2-12	70.0	42	17.5	60	60	0,674

6510

90° Bulkhead union
(ISO 8434-3)

BHE

Part number	Dimensions							Weight kg/unit
	Ø		Thread					
	tube mm	tube inch	F	L	L1	CH1	CH2	
6510-06	6	1/4"	9/16-18	47.0	21	14	22	0,078
6510-09	8-10	5/16"-3/8"	11/16-16	52.0	25	19	27	0,146
6510-11	12	1/2"	13/16-16	55.0	28	19	30	0,252
6510-13	14-16	5/8"	1-14	63.0	35	27	36	0,287
6510-14	18-20	3/4"	1.3/16-12	67.0	38	27	41	0,31
6510-15	22-25	1"	1.7/16-12	71.0	41.5	36	46	0,64

Bulkhead locknut

BHLN

Part number	Dimensions			Weight kg/unit
	Thread			
	F	L	CH2	
O107-06	9/16-18	7.0	22	0,011
O107-09	11/16-16	8.0	27	0,025
O107-11	13/16-16	9.0	30	0,031
O107-13	1-14	11.0	36	0,053
O107-14	1.3/16-12	11.0	41	0,064
O107-15	1.7/16-12	11.0	46	0,068
O107-21	1.11/16-12	11.0	50	0,070
O107-32	2-12	11.0	60	0,100

6150

**Bulkhead unions ORFS/UNF
(ISO 11926)**

BHS

Part number	Dimensions									Weight kg/unit
	Ø		Thread							
	tube mm	tube inch	F	F1	L	L1	L2	CH1	CH2	
6150-04-06	6	1/4"	9/16-18	7/16-20	54.0	31.5	11	22	22	0,075
6150-06-09	8-10	5/16"-3/8"	11/16-16	9/16-18	58.0	34	12	27	27	0,112
6150-08-11	12	1/2"	13/16-16	3/4-16	65.0	36.5	14	30	30	0,147
6150-10-13	14-16	5/8"	1-14	7/8-14	67.0	40.5	16	36	36	0,295
6150-12-14	18-20	3/4"	1.3/16-12	1.1/16-12	71.0	41.5	18.5	41	41	0,33

Male stud connector ORFS-UNF (ISO 11926)

SDS

Part number	Dimensions								Weight kg/unit
	Ø		Thread						
	tube mm	tube inch	F	F1	L	L2	L3	CH1	
6100-04-06	6	1/4"	9/16-18	7/16-20	29.0	10	11	17	0,03
6100-06-06	6	1/4"	9/16-18	9/16-18	31.0	10	12	19	0,036
6100-06-09	8-10	5/16"-3/8"	11/16-16	9/16-18	32.0	11	12	19	0,045
6100-08-11	12	1/2"	13/16-16	3/4-16	37.0	13	14	22	0,067
6100-10-09	8-10	5/16"-3/8"	11/16-16	7/8-14	39.0	11	16	27	0,089
6100-10-13	14-16	5/8"	1-14	7/8-14	43.0	15.5	16	27	0,109
6100-10-14	18-20	3/4"	1.3/16-12	7/8-14	51.0	17	16	32	0,177
6100-12-14	18-20	3/4"	1.3/16-12	1.1/16-12	49.0	17	18.5	32	0,173
6100-12-15	22-25	1"	1.7/16-12	1.1/16-12	55.0	17.5	18.5	41	0,287
6100-16-14	18-20	3/4"	1.3/16-12	1.5/16-12	50.0	17	18.5	41	0,254
6100-16-15	22-25	1"	1.7/16-12	1.5/16-12	50.0	17.5	18.5	41	0,29
6100-20-15	22-25	1"	1.7/16-12	1.5/8-12	52.5	17.5	18.5	46	0,428
6100-20-21	28-32	1.1/4"	1.11/16-12	1.5/8-12	52.5	17.5	18.5	46	0,416
6100-24-32	35-38	1.1/2"	2-12	1.7/8-12	54.0	17.5	18.5	55	0,612

6200

Adjustable stud elbow ORFS-UNF (ISO 11926)

SDE

Part number	Dimensions								Weight kg/unit
	Ø		Thread						
	tube mm	tube inch	F	F1	L	L1	CH1	CH2	
6200-04-06	6	1/4"	9/16-18	7/16-20	32.0	21	14	17	0,053
6200-06-06	6	1/4"	9/16-18	9/16-18	37.0	23	19	19	0,066
6200-06-09	8-10	5/16"-3/8"	11/16-16	9/16-18	37.0	25	19	19	0,068
6200-08-11	12	1/2"	13/16-16	3/4-16	41.0	28	19	24	0,164
6200-10-13	14-16	5/8"	1-14	7/8-14	50.0	33.5	27	27	0,214
6200-12-14	18-20	3/4"	1.3/16-12	1.1/16-12	55.0	37.5	27	36	0,35
6200-16-15	22-25	1"	1.7/16-12	1.5/16-12	59.0	41.5	36	41	0,49
6200-20-21	28-32	1.1/4"	1.11/16-12	1.5/8-12	62.0	44.5	41	50	0,695
6200-24-32	35-38	1.1/2"	2-12	1.7/8-12	67.0	49	50	55	0,775

6250

Adjustable stud elbow ORFS-UNF (ISO 11926)

SDE45

Part number	Dimensions						CH1	CH2	Weight kg/unit
	Ø		Thread		L	L1			
	tube mm	tube inch	F	F1	L	L1	CH1	CH2	
6250-04-06	6	1/4"	9/16-18	7/16-20	30.0	18	14	17	0,045
6250-04-09	8-10	5/16"-3/8"	11/16-16	7/16-20	31.5	19.5	19	17	0.064
6250-06-09	8-10	5/16"-3/8"	11/16-16	9/16-18	33.0	19.5	19	19	0,083
6250-08-09	8-10	5/16"-3/8"	11/16-16	3/4-16	37.0	19	19	24	0.096
6250-08-11	12	1/2"	13/16-16	3/4-16	37.0	22	19	24	0,117
6250-08-13	14-16	5/8"	1-14	3/4-16	40.5	26	27	24	0.192
6250-10-13	14-16	5/8"	1-14	7/8-14	44.0	26	27	27	0,194
6250-12-14	18-20	3/4"	1.3/16-12	1.1/16-12	50.0	27	27	36	0,294
6250-16-15	22-25	1"	1.7/16-12	1.5/16-12	52.5	30	36	41	0,394
6250-20-21	28-32	1.1/4"	1.11/16-12	1.5/8-12	53.5	32	41	50	0,447

6400

Adjustable stud Branch Tee
ORFS-UNF (ISO 11926)

SDBT

Part number	Dimensions								Weight kg/unit
	Ø		Thread						
	tube mm	tube inch	F	F1	L	L1	CH1	CH2	
6400-04-06	6	1/4"	9/16-18	7/16-20	32.0	21	14	17	0,067
6400-06-09	8-10	5/16"-3/8"	11/16-16	9/16-18	37.0	25	19	19	0,131
6400-08-11	12	1/2"	13/16-16	3/4-16	41.0	28	19	24	0,187
6400-10-13	14-16	5/8"	1-14	7/8-16	50.0	33.5	27	27	0,279
6400-12-14	18-20	3/4"	1.3/16-12	1.1/16-12	55.0	37.5	27	36	0,441
6400-16-15	22-25	1"	1.7/16-12	1.5/16-12	59.0	41.5	36	41	0,539
6400-20-21	28-32	1.1/4"	1.11/16-12	1.5/8-12	62.0	44.5	41	50	0,851
6400-24-32	35-38	1.1/2"	2-12	1.7/8-12	67.0	49	50	55	0,942

6450

Adjustable stud Run Tee ORFS-UNF (ISO 11926)

SDRT

Part number	Dimensions								Weight kg/unit
	Ø		Thread						
	tube mm	tube inch	F	F1	L	L1	CH1	CH2	
6450-04-06	6	1/4"	9/16-18	7/16-20	32.0	21	14	17	0,067
6450-06-09	8-10	5/16"-3/8"	11/16-16	9/16-18	37.0	25	19	19	0,131
6450-08-11	12	1/2"	13/16-16	3/4-16	41.0	28	19	24	0,187
6450-10-13	14-16	5/8"	1-14	7/8-16	50.0	33.5	27	27	0,279
6450-12-14	18-20	3/4"	1.3/16-12	1.1/16-12	55.0	37.5	27	36	0,441
6450-16-15	22-25	1"	1.7/16-12	1.5/16-12	59.0	41.5	36	41	0,539
6450-20-21	28-32	1.1/4"	1.11/16-12	1.5/8-12	62.0	44.5	41	50	0,851
6450-24-32	35-38	1.1/2"	2-12	1.7/8-12	67.0	49	50	55	0,942

6805

Male stud connector ORFS-BSPP (Form E ISO 1179-2)

SDS

Part number	Dimensions								Weight kg/unit
	Ø		Thread						
	tube mm	tube inch	F	F1	L	L2	L3	CH1	
6805-02-06	6	1/4"	9/16-18	G 1/8	25.0	10	8	17	0,029
6805-04-06	6	1/4"	9/16-18	G 1/4	30.5	10	12	19	0,042
6805-04-09	8-10	5/16"-3/8"	11/16-16	G 1/4	31.5	11	12	19	0,045
6805-04-11	12	1/2"	13/16-16	G 1/4	33.0	13	12	22	0,04
6805-06-06	6	1/4"	9/16-18	G 3/8	30.5	10	12	22	0,061
6805-06-09	8-10	5/16"-3/8"	11/16-16	G 3/8	31.5	11	12	22	0,063
6805-06-11	12	1/2"	13/16-16	G 3/8	33.5	13	12	22	0,06
6805-06-13	14-16	5/8"	1-14	G 3/8	37.0	15.5	12	27	0,093
6805-08-09	8-10	5/16"-3/8"	11/16-16	G 1/2	35.0	11	14	27	0,052
6805-08-11	12	1/2"	13/16-16	G 1/2	37.0	13	14	27	0,09
6805-08-13	14-16	5/8"	1-14	G 1/2	39.5	15.5	14	27	0,11
6805-08-14	18-20	3/4"	1.3/16-12	G 1/2	43.0	17	14	32	0,147
6805-12-11	12	1/2"	13/16-16	G 3/4	41.0	13	16	32	0,151
6805-12-13	14-16	5/8"	1-14	G 3/4	43.5	15.5	16	32	0,154
6805-12-14	18-20	3/4"	1.3/16-12	G 3/4	45.0	17	16	32	0,164
6805-12-15	22-25	1"	1.7/16-12	G 3/4	46.0	17.5	16	41	0,236
6805-16-13	14-16	5/8"	1-14	G 1	46.0	15.5	18	41	0,271
6805-16-14	18-20	3/4"	1.3/16-12	G 1	47.5	17	18	41	0,276
6805-16-15	22-25	1"	1.7/16-12	G 1	48.0	17.5	18	41	0,37
6805-16-21	28-32	1.1/4"	1.11/16-12	G 1	49.5	17.5	18	46	0,505
6805-20-15	22-25	1"	1.7/16-12	G 1.1/4	51.5	17.5	20	50	0,487
6805-20-21	28-32	1.1/4"	1.11/16-12	G 1.1/4	51.5	17.5	20	50	0,532
6805-24-32	35-38	1.1/2"	2-12	G 1.1/2	55.5	17.5	22	55	0,585

6800

Male stud connector ORFS-BSPP (ISO 1179)

SDS

Part number	Dimensions								Weight kg/unit
	Ø		Thread						
	tube mm	tube inch	F	F1	L	L2	L3	CH1	
6800-02-06	6	1/4"	9/16-18	G 1/8	25.0	10	8	17	0.029
6800-04-06	6	1/4"	9/16-18	G 1/4	30.5	10	12	19	0.042
6800-04-09	8-10	5/16"-3/8"	11/16-16	G 1/4	31.5	11	12	19	0.045
6800-04-11	12	1/2"	13/16-16	G 1/4	33.5	13	12	22	0.04
6800-06-06	6	1/4"	9/16-18	G 3/8	30.5	10	12	22	0.061
6800-06-09	8-10	5/16"-3/8"	11-16-16	G 3/8	31.5	11	12	22	0.063
6800-06-11	12	1/2"	13/16-16	G 3/8	33.5	13	12	22	0.06
6800-06-13	14-16	5/8"	1-14	G 3/8	37.5	15.5	12	27	0.093
6800-08-09	8-10	5/16"-3/8"	11/16-16	G 1/2	35.5	11	14.5	27	0.052
6800-08-11	12	1/2"	13/16-16	G 1/2	37.5	13	14.5	27	0.09
6800-08-13	14-16	5/8"	1-14	G 1/2	40.0	15.5	14.5	27	0.11
6800-08-14	18-20	3/4"	1.3/16-12	G 1/2	41.5	17	14.5	32	0.147
6800-12-13	14-16	5/8"	1-14	G 3/4	43.5	15.5	16	36	0.154
6800-12-14	18-20	3/4"	1.3/16-12	G 3/4	45.0	17	16	36	0.164
6800-12-15	22-25	1"	1.7/16-12	G 3/4	45.5	17.5	16	41	0.236
6800-16-14	18-20	3/4"	1.3/16-12	G 1	47.5	17	18	41	0.271
6800-16-15	22-25	1"	1.7/16-12	G 1	48.0	17.5	18	41	0.276
6800-16-21	28-32	1.1/4"	1.11/16-12	G 1	49.5	17.5	18	46	0.37
6800-20-15	18-20	3/4"	1.3/16-12	G 1.1/4	51.5	17.5	20	50	0.505
6800-20-21	22-25	1"	1.7/16-12	G 1.1/4	51.5	17.5	20	50	0.487
6800-24-21	22-25	1"	1.11/16-12	G 1.1/2	55.5	17.5	22	55	0.532
6800-24-32	35-38	1.1/2"	2-12	G 1.1/2	55.5	17.5	22	55	0.585

6215

90° Adjustable stud elbow ORFS-BSP (ISO 1179)

SDE

Part number	Dimensions								Weight kg/unit
	Ø		Thread						
	tube mm	tube inch	F	F1	L	L1	CH1	CH2	
6215-02-06	6	1/4"	9/16-18	G 1/8	30.0	21	14	14	0,049
6215-04-06	6	1/4"	9/16-18	G 1/4	37.0	23	19	19	0,093
6215-04-09	8-10	5/16"-3/8"	11/16-16	G 1/4	37.0	25	19	19	0,097
6215-04-11	12	1/2"	13/16-16	G 1/4	37.0	28	19	19	0,108
6215-06-06	6	1/4"	9/16-18	G 3/8	38.0	23	19	22	0,099
6215-06-09	8-10	5/16"-3/8"	11/16-16	G 3/8	38.0	25	19	22	0,106
6215-06-11	12	1/2"	13/16-16	G 3/8	38.0	28	19	22	0,108
6215-06-13	14-16	5/8"	1-14	G 3/8	43.0	33.5	27	22	0,235
6215-08-09	8-10	5/16"-3/8"	11/16-16	G 1/2	48.0	29.5	27	27	0,12
6215-08-11	12	1/2"	13/16-16	G 1/2	48.0	30.5	27	27	0,239
6215-08-13	14-16	5/8"	1-14	G 1/2	48.0	33.5	27	27	0,274
6215-08-14	18-20	3/4"	1.3/16-12	G 1/2	48.0	37.5	27	27	0,297
6215-12-11	12	1/2"	13/16-16	G 3/4	51.5	32	27	36	0,258
6215-12-13	14-16	5/8"	1-14	G 3/4	51.5	33.5	27	36	0,352
6215-12-14	18-20	3/4"	1.3/16-12	G 3/4	51.5	37.5	27	36	0,355
6215-12-15	22-25	1"	1.7/16-12	G 3/4	54.5	41.5	36	36	0,533
6215-16-14	18-20	3/4"	1.3/16-12	G 1	59.0	39.5	36	41	0,362
6215-16-15	22-25	1"	1.7/16-12	G 1	59.0	41.5	36	41	0,551
6215-16-21	28-32	1.1/4"	1.11/16-12	G 1	60.5	44.5	41	41	0,712
6215-20-15	22-25	1"	1.7/16-12	G 1.1/4	62.0	43	41	50	0,758
6215-20-21	28-32	1.1/4"	1.11/16-12	G 1.1/4	62.0	44.5	41	50	0,752
6215-24-21	28-32	1.1/4"	1.11/16-12	G 1.1/2	65.0	46.5	50	55	0.821
6215-24-32	35-38	1.1/2"	2-12	G 1.1/2	65.0	49	50	55	0,953

6260

45° Adjustable stud elbow ORFS-BSP (ISO 1179)

SDE45

Part number	Dimensions								Weight kg/unit
	Ø		Thread						
	tube mm	tube inch	F	F1	L	L1	CH1	CH2	
6260-02-06	6	1/4"	9/16-18	G 1/8	28.0	18	14	14	0,038
6260-04-06	6	1/4"	9/16-18	G 1/4	32.5	18.5	19	19	0,055
6260-04-09	8-10	5/16"-3/8"	11/16-16	G 1/4	32.5	19.5	19	19	0,083
6260-06-09	8-10	5/16"-3/8"	11/16-16	G 3/8	33.5	19.5	19	22	0,095
6260-06-11	12	1/2"	13/16-16	G 3/8	33.5	22	19	22	0,117
6260-08-09	8-10	5/16"-3/8"	11/16-16	G 1/2	42.0	22.5	27	27	0,107
6260-08-13	14-16	5/8"	1-14	G 1/2	42.0	26	27	27	0,191
6260-12-13	14-16	5/8"	1-14	G 3/4	46.0	26	27	36	0,205
6260-12-14	18-20	3/4"	1.3/16-12	G 3/4	46.0	27	27	36	0,245
6260-16-14	18-20	3/4"	1.3/16-12	G 1	51.0	29.5	36	41	0,325
6260-16-15	22-25	1"	1.7/16-12	G 1	51.0	30	36	41	0,394
6260-20-21	28-32	1.1/4"	1.11/16-12	G 1.1/4	52.0	32	41	50	0,43

6460

Adjustable stud Run Tee
ORFS-BSP
(ISO 1179)

SDRT

Part number	Dimensions								Weight kg/unit
	Ø		Thread						
	tube mm	tube inch	F	F1	L	L1	CH1	CH2	
6460-02-06	6	1/4"	9/16-18	G 1/8	30.0	21	14	14	0,069
6460-04-06	6	1/4"	9/16-18	G 1/4	37.0	23	19	19	0,097
6460-04-09	8-10	5/16"-3/8"	11/16-16	G 1/4	37.0	25	19	19	0,127
6460-06-06	6	1/4"	9/16-18	G 3/8	38.0	23	19	22	0,11
6460-06-09	8-10	5/16"-3/8"	11/16-16	G 3/8	38.0	25	19	22	0,126
6460-06-11	12	1/2"	13/16-16	G 3/8	38.0	28	19	22	0,146
6460-08-11	12	1/2"	13/16-16	G 1/2	48.0	30.5	27	27	0,174
6460-08-13	14-16	5/8"	1-14	G 1/2	48.0	33.5	27	27	0,288
6460-12-13	14-16	5/8"	1-14	G 3/4	51.5	33.5	27	36	0,31
6460-12-14	18-20	3/4"	1.3/16-12	G 3/4	51.5	37.5	27	36	0,49
6460-16-15	22-25	1"	1.7/16-12	G 1	59.0	41.5	36	41	0,55
6460-20-21	28-32	1.1/4"	1.11/16-12	G 1.1/4	62.0	44.5	41	50	0,825
6460-24-32	35-38	1.1/2"	2-12	G 1.1/2	65.0	49	50	55	0,95

Adjustable stud Branch Tee ORFS-BSP (ISO 1179)

SDBT

Part number	Dimensions						CH1	CH2	Weight kg/unit
	Ø		Thread		L	L1			
	tube mm	tube inch	F	F1	L	L1	CH1	CH2	
6410-02-06	6	1/4"	9/16-18	G 1/8	30.0	21	14	14	0,069
6410-04-06	6	1/4"	9/16-18	G 1/4	37.0	23	19	19	0,097
6410-04-09	8-10	5/16"-3/8"	11/16-16	G 1/4	37.0	25	19	19	0,127
6410-06-06	6	1/4"	9/16-18	G 3/8	38.0	23	19	22	0,11
6410-06-09	8-10	5/16"-3/8"	11/16-16	G 3/8	38.0	25	19	22	0,126
6410-06-11	12	1/2"	13/16-16	G 3/8	38.0	28	19	22	0,146
6410-08-11	12	1/2"	13/16-16	G 1/2	48.0	30.5	27	27	0,174
6410-08-13	14-16	5/8"	1-14	G 1/2	48.0	33.5	27	27	0,288
6410-12-13	14-16	5/8"	1-14	G 3/4	51.5	33.5	27	36	0,31
6410-12-14	18-20	3/4"	1.3/16-12	G 3/4	51.5	37.5	27	36	0,49
6410-16-15	22-25	1"	1.7/16-12	G 1	59.0	41.5	36	41	0,55
6410-20-21	28-32	1.1/4"	1.11/16-12	G 1.1/4	62.0	44.5	41	50	0,825
6410-24-32	35-38	1.1/2"	2-12	G 1.1/2	65.0	49	50	55	0,95

6870

90° Adjustable stud elbow ORFS-METRIC (ISO 6149)

SDE

Part number	Dimensions						CH1	CH2	Weight kg/unit
	Ø		Thread		L	L1			
	tube mm	tube inch	F	F1	L	L1	CH1	CH2	
6870-10-06	6	1/4"	9/16-18	M10x1	30.0	21	14	14	0.050
6870-12-06	6	1/4"	9/16-18	M12x1.5	33.0	21	14	17	0.052
6870-14-09	8-10	5/16"-3/8"	11/16-16	M14x1.5	36.0	25	19	19	0.060
6870-16-09	8-10	5/16"-3/8"	11-16-16	M16x1.5	38.0	25	19	22	0.065
6870-18-11	12	1/2"	13/16-16	M18x1.5	41.0	28	19	24	0.160
6870-18-13	14-16	5/8"	1-14	M18x1.5	45.5	33.5	27	24	0.190
6870-22-13	14-16	5/8"	1-14	M22x1.5	50.0	33.5	27	27	0.215
6870-27-14	18-20	3/4"	1.3/16-12	M27x2	55.0	37.5	27	32	0.420
6870-33-15	22-25	1"	1.7/16-12	M33x2	59.0	41.5	36	41	0.500
6870-42-21	28-32	1.1/4"	1.11/16-12	M42x2	62.0	44.5	41	50	0.560
6870-48-32	35-38	1.1/2"	2-12	M48x2	68.0	49	50	55	0.685

6860

**45° Adjustable stud elbow
ORFS-METRIC
(ISO 6149)**

SDE45

Part number	Dimensions								Weight kg/unit
	Ø		Thread						
	tube mm	tube inch	F	F1	L	L1	CH1	CH2	
6860-12-06	6	1/4"	9/16-18	M12x1.5	30.0	18	14	17	0.045
6860-14-09	8-10	5/16"-3/8"	11/16-16	M14x1.5	32.0	19.5	19	19	0.075
6860-16-09	8-10	5/16"-3/8"	11/16-16	M16x1.5	34.0	19.5	19	22	0.080
6860-18-11	12	1/2"	13/16-16	M18x1.5	37.0	22	19	24	0.110
6860-18-13	14-16	5/8"	1-14	M18x1.5	40.0	26	27	24	0.170
6860-22-13	14-16	5/8"	1-14	M22x1.5	44.0	26	27	27	0.190
6860-27-14	18-20	3/4"	1.3/16-12	M27x2	50.0	27	27	32	0.250
6860-33-15	22-25	1"	1.7/16-12	M33x2	52.5	30	36	41	0.300
6860-42-21	28-32	1.1/4"	1.11/16-12	M42x2	54.0	32	41	50	0.445

6890

Adjustable stud Branch Tee ORFS-METRIC (ISO 6149)

SDBT

Part number	Dimensions						CH1	CH2	Weight kg/unit
	Ø		Thread		L	L1			
	tube mm	tube inch	F	F1	L	L1	CH1	CH2	
6890-12-06	6	1/4"	9/16-18	M12x1.5	33.0	21	14	17	0.066
6890-14-09	8-10	5/16"-3/8"	11/16-16	M14x1.5	36.0	25	19	19	0.080
6890-16-09	8-10	5/16"-3/8"	11/16-16	M16x1.5	38.0	25	19	22	0.085
6890-18-11	12	1/2"	13/16-16	M18x1.5	41.0	28	19	24	0.200
6890-22-13	14-16	5/8"	1-14	M22x1.5	50.0	33.5	27	27	0.280
6890-27-14	18-20	3/4"	1.3/16-12	M27x2	55.0	37.5	27	32	0.530
6890-33-15	22-25	1"	1.7/16-12	M33x2	59.0	41.5	36	41	0.650
6890-42-21	28-32	1.1/4"	1.11/16-12	M42x2	62.0	44.5	41	50	0.730
6890-48-32	35-38	1.1/2"	2-12	M48x2	68.0	49	50	55	0.890

6880

Adjustable stud Run Tee
ORFS-METRIC
(ISO 6149)

SDRT

Part number	Dimensions								Weight kg/unit
	Ø		Thread						
	tube mm	tube inch	F	F1	L	L1	CH1	CH2	
6880-12-06	6	1/4"	9/16-18	M12x1.5	33.0	21	14	17	0.066
6880-14-09	8-10	5/16"-3/8"	11/16-16	M14x1.5	36.0	25	19	19	0.080
6880-16-09	8-10	5/16"-3/8"	11/16-16	M16x1.5	38.0	25	19	22	0.085
6880-18-11	12	1/2"	13/16-16	M18x1.5	41.0	28	19	24	0.200
6880-22-13	14-16	5/8"	1-14	M22x1.5	50.0	33.5	27	27	0.280
6880-27-14	18-20	3/4"	1.3/16-12	M27x2	55.0	37.5	27	32	0.530
6880-33-15	22-25	1"	1.7/16-12	M33x2	59.0	41.5	36	41	0.650
6880-42-21	28-32	1.1/4"	1.11/16-12	M42x2	62.0	44.5	41	50	0.730
6880-48-32	35-38	1.1/2"	2-12	M48x2	68.0	49	50	55	0.890

6905

Male stud connector
ORFS-METRICO
(Form E ISO 9974-2)

SDS

Part number	Dimensions								Weight kg/unit
	Ø		Thread						
	tube mm	tube inch	F	F1	L	L2	L3	CH1	
6905-10-06	6	1/4"	9/16-18	M10x1	25.0	10	8	17	0.020
6905-12-06	6	1/4"	9/16-18	M12x1.5	29.0	10	12	17	0.024
6905-12-09	8-10	5/16"-3/8"	11/16-16	M12x1.5	31.5	11	12	19	0.040
6905-14-06	6	1/4"	9/16-18	M14x1.5	30.5	10	12	19	0.030
6905-14-09	8-10	5/16"-3/8"	11/16-16	M14x1.5	31.5	11	12	19	0.043
6905-16-09	8-10	5/16"-3/8"	11/16-16	M16x1.5	31.5	11	12	22	0.043
6905-16-11	12	1/2"	13/16-16	M16x1.5	33.5	13	12	22	0.058
6905-18-11	12	1/2"	13/16-16	M18x1.5	33.5	13	12	24	0.050
6905-18-13	14-16	5/8"	1-14	M18x1.5	37.5	15.5	12	27	0.120
6905-22-13	14-16	5/8"	1-14	M22x1.5	39.5	15.5	14	27	0.127
6905-27-14	18-20	3/4"	1.3/16-12	M27x2	45.0	17	16	32	0.187
6905-33-15	22-25	1"	1.7/16-12	M33x2	48.0	17.5	18	41	0.270
6905-42-21	28-32	1.1/4"	1.11/16-12	M42x2	51.5	17.5	20	50	0.390
6905-48-32	35-38	1.1/2"	2-12	M48x2	55.5	17.5	22	55	0.412

6900

Male stud connector ORFS-METRIC with O-ring and retaining ring

SDS

Part number	Dimensions								Weight kg/unit
	Ø		Thread						
	tube mm	tube inch	F	F1	L	L2	L3	CH1	
6900-10-06	6	1/4"	9/16-18	M10x1	26.0	10	9	17	
6900-12-06	6	1/4"	9/16-18	M12x1,5	28.5	10	11.5	17	
6900-14-09	8-10	5/16"-3/8"	11/16-16	M14x1,5	30.5	11	11.5	19	
6900-16-09	8-10	5/16"-3/8"	11/16-16	M16x1,5	33.0	11	13	22	
6900-18-11	12	1/2"	13/16-16	M18x1,5	36.0	13	13.5	24	
6900-22-13	14-16	5/8"	1-14	M22x1,5	40.5	15.5	15	27	
6900-27-14	18-20	3/4"	1.3/16-12	M27x2	47.5	17	18.5	32	
6900-33-15	22-25	1"	1.7/16-12	M33x2	50.0	17.5	18.5	41	
6900-42-21	28-32	1.1/4"	1.11/16-12	M42x2	52.5	17.5	19	50	
6900-48-32	35-38	1.1/2"	2-12	M48x2	55.0	17.5	21.5	55	

6320

90° Adjustable stud elbow ORFS-METRIC with O-ring and retaining ring

SDE

Part number	Dimensions						CH1	CH2	Weight kg/unit
	Ø		Thread		L	L1			
	tube mm	tube inch	F	F1					
6320-10-06	6	1/4"	9/16-18	M10X1	30.0	21	14	14	0,038
6320-12-06	6	1/4"	9/16-18	M12X1.5	33.0	21	14	17	0,044
6320-14-09	8-10	5/16"-3/8"	11/16-16	M14X1.5	36.0	25	19	19	0,075
6320-16-09	8-10	5/16"-3/8"	11/16-16	M16X1.5	38.0	25	19	22	0,082
6320-16-11	12	1/2"	13/16-16	M16X1.5	38.0	28	19	22	0,1
6320-18-11	12	1/2"	13/16-16	M18X1.5	41.0	28	19	24	0,11
6320-18-13	14-16	5/8"	1-14	M18X1.5	45.5	33.5	27	24	0,16
6320-22-13	14-16	5/8"	1-14	M22X1.5	50.0	33.5	27	27	0,19
6320-22-14	18-20	3/4"	1.3/16-12	M22X1.5	50.0	37.5	27	27	0,205
6320-27-14	18-20	3/4"	1.3/16-12	M27X2	55.0	37.5	27	32	0,235
6320-27-15	22-25	1"	1.7/16-12	M27X2	57.0	41.5	36	32	0,27
6320-33-15	22-25	1"	1.7/16-12	M33X2	59.0	41.5	36	41	0,3
6320-42-21	28-32	1.1/4"	1.11/16-12	M42X2	62.0	44.5	41	50	0,445
6320-48-32	35-38	1.1/2"	2-12	M48X2	68.0	49	50	55	0,57

6270

45° Adjustable stud elbow
ORFS-METRIC with O-ring
and retaining ring

SDE45

Part number	Dimensions								Weight kg/unit
	Ø		Thread						
	tube mm	tube inch	F	F1	L	L1	CH1	CH2	
6270-10-06	6	1/4"	9/16-18	M10X1	28.0	18	14	14	0,038
6270-12-06	6	1/4"	9/16-18	M12X1.5	30.0	18	14	17	0,044
6270-14-09	8-10	5/16"-3/8"	11/16-16	M14X1.5	32.0	19.5	19	19	0,075
6270-16-09	8-10	5/16"-3/8"	11/16-16	M16X1.5	34.0	19.5	19	22	0,082
6270-18-11	12	1/2"	13/16-16	M18X1.5	37.0	22	19	24	0,11
6270-18-13	14-16	5/8"	1-14	M18X1.5	40.0	26	27	24	0,16
6270-22-13	14-16	5/8"	1-14	M22X1.5	44.0	26	27	27	0,19
6270-27-14	18-20	3/4"	1.3/16-12	M27X2	50.0	27	27	32	0,235
6270-33-15	22-25	1"	1.7/16-12	M33X2	52.5	30	36	41	0,3
6270-42-21	28-32	1.1/4"	1.11/16-12	M42X2	54.0	32	41	50	0,445

Adjustable stud Branch Tee OR- FS-METRIC with O-ring and retaining ring

SDBT

Part number	Dimensions						CH1	CH2	Weight kg/unit
	Ø		Thread		L	L1			
	tube mm	tube inch	F	F1	L	L1	CH1	CH2	
6420-12-06	6	1/4"	9/16-18	M12X1.5	33.0	21	14	17	0,066
6420-14-09	8-10	5/16"-3/8"	11/16-16	M14X1.5	36.0	25	19	19	0,097
6420-16-09	8-10	5/16"-3/8"	11/16-16	M16X1.5	38.0	25	19	22	0,131
6420-18-11	12	1/2"	13/16-16	M18X1.5	41.0	28	19	24	0,187
6420-22-13	14-16	5/8"	1-14	M22X1.5	50.0	33.5	27	27	0,283
6420-27-14	18-20	3/4"	1.3/16-12	M27X2	55.0	37.5	27	32	0,549
6420-33-15	22-25	1"	1.7/16-12	M33X2	59.0	41.5	36	41	0,565
6420-42-21	28-32	1.1/4"	1.11/16-12	M42X2	62.0	44.5	41	50	0,824
6420-48-32	35-38	1.1/2"	2-12	M48X2	68.0	49	50	55	0,94

6470

**Adjustable stud Run Tee
ORFS-METRIC with O-ring
and retaining ring**

SDRT

Part number	Dimensions								Weight kg/unit
	Ø		Thread						
	tube mm	tube inch	F	F1	L	L1	CH1	CH2	
6470-12-06	6	1/4"	9/16-18	M12X1.5	33.0	21	14	17	0,066
6470-14-09	8-10	5/16"-3/8"	11/16-16	M14X1.5	36.0	25	19	19	0,097
6470-16-09	8-10	5/16"-3/8"	11/16-16	M16X1.5	38.0	25	19	22	0,131
6470-18-11	12	1/2"	13/16-16	M18X1.5	41.0	28	19	24	0,2
6470-22-13	14-16	5/8"	1-14	M22X1.5	50.0	33.5	27	27	0,283
6470-27-14	18-20	3/4"	1.3/16-12	M27X2	55.0	37.5	27	32	0,549
6470-33-15	22-25	1"	1.7/16-12	M33X2	59.0	41.5	36	41	0,652
6470-42-21	28-32	1.1/4"	1.11/16-12	M42X2	62.0	44.5	41	50	0,824
6470-48-32	35-38	1.1/2"	2-12	M48X2	68.0	49	50	55	0,94

6830

Male stud connector ORFS-NPT

SDS

6230

90° Male stud elbows
ORFS-NPT

SDE

Part number	Dimensions							Weight kg/unit
	Ø		Thread					
	tube mm	tube inch	F	F1	L	L1	CH1	
6230-02-06	6	1/4"	9/16-18	1/8-27 NPT	21.0	21	14	0.040
6230-04-06	6	1/4"	9/16-18	1/4-18 NPT	27.5	21	14	0.050
6230-06-09	8-10	5/16"-3/8"	11/16-16	3/8-18 NPT	31.0	25	19	0.080
6230-06-11	12	1/2"	13/16-16	3/8-18 NPT	31.0	28	19	0.090
6230-08-11	12	1/2"	13/16-16	1/2-14 NPT	37.0	28	22	0.125
6230-08-13	14-16	5/8"	1-14	1/2-14 NPT	36.0	33.5	27	0.155
6230-12-14	18-20	3/4"	1.3/16-12	3/4-14 NPT	40.5	37.5	27	0.205
6230-16-15	22-25	1"	1.7/16-12	1-11.1/2 NPT	50.0	41.5	36	0.385
6230-20-21	28-32	1.1/4"	1.11/16-12	1.1/4-1.1/2 NPT	60.5	44.5	41	0.470
6230-24-32	35-38	1.1/2"	2-12	1.1/2-11.1/2 NPT	67.0	49	50	0.605

6600

ORFS Male plug
(ISO 8434-3)

PL

Part number	Dimensions						Weight kg/unit
	Ø		Thread				
	tube mm	tube inch	F	L	L2	CH1	
6600-06	6	1/4"	9/16-18	16.5	10	17	0,018
6600-09	8-10	5/16"-3/8"	11/16-16	19.0	11	19	0,034
6600-11	12	1/2"	13/16-16	22.0	13	22	0,045
6600-13	14-16	5/8"	1-14	26.0	15.5	27	0,091
6600-14	18-20	3/4"	1.3/16-12	27.5	17	32	0,138
6600-15	22-25	1"	1.7/16-12	28.0	17.5	41	0,203
6600-21	28-32	1.1/4"	1.11/16-12	28.0	17.5	46	0,266
6600-32	35-38	1.1/2"	2-12	28.0	17.5	55	0,369

6610

ORFS Female plug

(ISO 8434-3)

CP

Part number	Dimensions						Weight kg/unit
	Ø		Thread				
	tube mm	tube inch	F	L	L1	CH3	
6610-06	6	1/4"	9/16-18	17.0	9	17	0,0021
6610-09	8-10	5/16"-3/8"	11/16-16	19.0	10.5	22	0,0043
6610-11	12	1/2"	13/16-16	22.0	12	24	0,0055
6610-13	14-16	5/8"	1-14	26.0	13.5	30	0,0105
6610-14	18-20	3/4"	1.3/16-12	28.5	15	36	0,0165
6610-15	22-25	1"	1.7/16-12	29.5	16	41	0,0215
6610-21	30-32	1.1/4"	1.11/16-12	29.5	16	50	0,0325
6610-32	35-38	1.1/2"	2-12	29.5	16	60	0,0455

ORFS braze-on straight
connector
(ISO 8434-3)

BRS

Part number	Dimensions								Weight kg/unit
	Ø		Thread						
	tube mm	tube inch	F	Q	P	L	L2	CH1	
MO-06-10	6	1/4"	9/16-18	10	8.5	22.0	10	17	0.023
MO-09-10	8-10	5/16"-3/8"	11/16-16	10	8.5	23.0	11	19	0.036
MO-09-12	8-10	5/16"-3/8"	11/16-16	12	8.5	23.0	11	19	0.030
MO-11-12	12	1/2"	13/16-16	12	8.5	24.5	13	22	0.044
MO-11-16	12	1/2"	13/16-16	16	9	25.0	13	22	0.042
MO-13-16	14-16	5/8"	1-14	16	9	28.0	15.5	27	0.104
MO-14-20	18-20	3/4"	1.3/16-12	20	12.5	33.5	17	32	0.144
MO-14-25	18-20	3/4"	1.3/16-12	25	14	35.0	17	32	0.220
MO-15-25	22-25	1"	1.7/16-12	25	14	38.5	17.5	41	0.225
MO-15-30	22-25	1"	1.7/16-12	30	14	38.5	17.5	41	0.276
MO-21-32	28-32	1.1/4"	1.11/16-12	32	14	38.5	17.5	46	0.278
MO-21-38	28-32	1.1/4"	1.11/16-12	38	14	38.5	17.5	50	0.371

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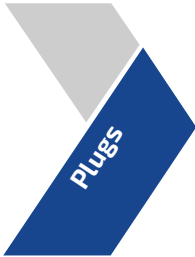
JIC

	5000		5010		
	Nut		Metric Sleeve		
	6		7		
	1900	5100	5120	5900	
	Union	90° Elbow Union	Union Tee	Union Cross	
	8	9	10	11	
	5050	5036	5035	5037	
	Swivel Connector M UNF x F JIC	Swivel Connector F JIC x M BSP OR (ED)	Swivel connector M BSP x F JIC	Swivel Connector F JIC x M Metric OR (ED)	
	12	13	14	15	
5038	5045	5056	5060	5070	
Swivel Connector M Metric x F JIC	Swivel Union	Swivel Reduction M JIC x F JIC	90° Swivel Elbow F JIC x M JIC	45° Swivel Elbow F JIC x M JIC	
16	17	18	19	20	
5080	5090		5110	5130	
Run Tee Swivel Connector	Branch Tee Swivel Connector		Bulkhead Union	90° Bulkhead Elbow Union	
21	22		23	24	

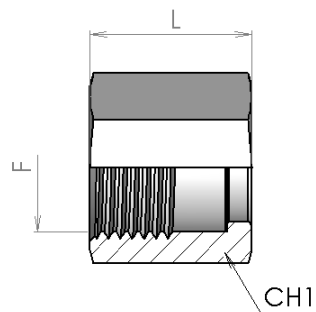
Dimensions and general characteristics may be changed at any time, data contained here in are only for information purpose only and it does not enlarge, amend or imply any warranty other than provided by us with the product. Any use of the product not in conformance with our instructions may be dangerous.

J107		1906	5140	5150
Bulkhead		Male Connector	90° Elbow Connector	45° Elbow Connector
25		26	27	28
5160	5170	5180		1907
Run Tee Connector	Branch Tee Connector	Male-Female Connector		Male Connector
29	30	31		32
5190	5200	5210	5220	
90° Elbow Connector	45° Elbow Connector	Run Tee Connector	Branch Tee Connector	
33	34	35	36	
5805	1915	1905	5185	5230
Male Connector M JIC x M BSP OR (ED)	Male Connector M JIC x M BSP	Male Connector M JIC x M BSP	Male-Female Connector	90° Elbow Connector
37	38	39	40	41
5235	5240	5250		1910
Adjustable 45° Elbow	Run Tee Connector	Branch Tee Connector		Male Connector M Metric x M JIC
42	43	44		45

Dimensions and general characteristics may be changed at any time, data contained here in are only for information purpose only and it does not enlarge, amend or imply any warranty other than provided by us with the product. Any use of the product not in conformance with our instructions may be dangerous.

5430	5440	5450	5455	1775
90° Adjustable Stud Elbow	45° Adjustable Stud Elbow	Adjustable Stud Run Tee	Adjustable Stud Branch Tee	Male Connector M Metric x M JIC OR (ED)
46	47	48	49	50
1777	5400	5410	5420	5425
Male Connector M Metric x M JIC	Adjustable Elbow c	Adjustable 45° Elbow	Adjustable Run Tee	Adjustable Branch Tee
51	52	53	54	55
	1903	5165	5265	5275
	Male Connector	90° Elbow Connector	45° Elbow Connector	Run Tee Connector
	56	57	58	59
5280		5040	J605	J608
Branch Tee Connector		SAE Plug	JIC Male Plug	JIC Female Plug
60		61	62	63
MJ				
				
	Braze-On Straight Connector			
	64			

5000



Nut
(ISO 8434-2)

N

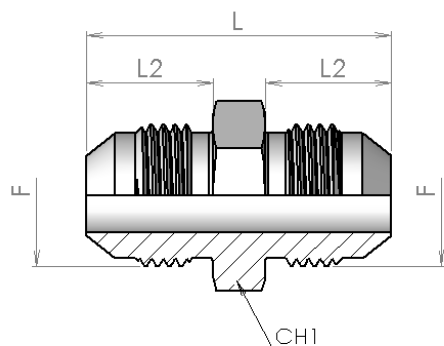
Part number	Dimensions			Weight kg/unit	
	Ø				
	tube mm	tube inch	L	CH1	
5000-04	6	1/4"	15.8	14	0,011
5000-05	8	5/16"	17.3	17	0,014
5000-06	10	3/8"	18.5	19	0,018
5000-08	12	1/2"	21.6	22	0,029
5000-10	16	5/8"	24.9	27	0,042
5000-12	20	-	26.2	32	0,070
5000-16	25	1"	28.7	41	0,105
5000-20	32	1-1/4"	31.2	50	0,240
5000-24	38	1-1/2"	36.1	60	0,320

Metric sleeve
(ISO 8434-2)

MSL

Part number	Dimensions			Weight kg/unit
	Ø			
	tube mm	D	L	
5010-06	6	6	10.5	0,002
5010-08	8	8	11.5	0,002
5010-10	10	10	12.5	0,002
5010-12	12	12	14.5	0,007
5010-14	14	14	16.5	0,013
5010-16	16	16	16.5	0,015
5010-18	18	18	17	0,016
5010-20	20	20	17	0,012
5010-25	25	25	19.5	0,021
5010-30	30	30	23	0,045
5010-32	32	32	23	0,030
5010-38	38	38	28.5	0,050

1900



Male union
(ISO 8434-2)

S

Part number	Dimensions						Weight kg/unit
	Ø						
	tube mm	tube inch	F	L	L2	CH1	
1900-04-04	6	1/4"	7/16-20	35	14	12	0,016
1900-05-05	8	5/16"	1/2-20	35	14	14	0,018
1900-06-06	10	3/8"	9/16-18	36	14	17	0,025
1900-08-08	12	1/2"	3/4-16	41	17	22	0,052
1900-10-10	16	5/8"	7/8-14	48	19	24	0,08
1900-12-12	20	3/4"	1 1/16-12	55	22	30	0,125
1900-16-16	25	1"	1 5/16-12	57	23	36	0,13
1900-20-20	30-32	1.1/4"	1 5/8-12	61.5	24	46	0,27
1900-24-24	38	1.1/2"	1 7/8-12	70	27.5	50	0,385
1900-32-32	50	2"	2 1/2-12	86.5	34	65	0,78

90° Union Elbow
(ISO 8434-2)

E

Part number	Dimensions					Weight kg/unit
	Ø					
	tube mm	tube inch	F	L1	CH1	
5100-04	6	1/4"	7/16-20	22.5	12	0,025
5100-05	8	5/16"	1/2-20	24	14	0,03
5100-06	10	3/8"	9/16-18	27	14	0,045
5100-08	12	1/2"	3/4-16	32	19	0,09
5100-10	16	5/8"	7/8-14	37	22	0,14
5100-12	20	3/4"	1 1/16-12	42	27	0,26
5100-16	25	1"	1 5/16-12	46	33	0,33
5100-20	32	1.1/4"	1 5/8-12	52.5	41	0,585
5100-24	38	1.1/2"	1 7/8-12	59	50	0,8

5120

Union Tee
(ISO 8434-2)

T

Part number	Dimensions						Weight kg/unit
	Ø						
	tube mm	tube inch	F	L	L1	CH1	
5120-04	6	1/4"	7/16-20	52	22	12	0,035
5120-05	8	5/16"	1/2-20	48	24	14	0,045
5120-06	10	3/8"	9/16-18	52	27	14	0,055
5120-08	12	1/2"	3/4-16	64	32	19	0,12
5120-10	16	5/8"	7/8-14	64	36	22	0,18
5120-12	20	3/4"	1 1/16-12	84	42	27	0,29
5120-16	25	1"	1 5/16-12	92	46	33	0,415
5120-20	32	1.1/4"	1 5/8-12	104	52	41	0,7
5120-24	38	1.1/2"	1 7/8-12	118	59	50	1

5900

**Union Cross
(ISO 8434-2)**

K

Part number	Dimensions					Weight kg/unit
	Ø					
	tube mm	tube inch	F	L	CH1	
5900-04	6	1/4"	7/16-20	23	14	0,045
5900-05	8	5/16"	1/2-20	24	14	0,05
5900-06	10	3/8"	9/16-18	27	14	0,065
5900-08	12	1/2"	3/4-16	32	19	0,145
5900-10	16	5/8"	7/8-14	37	22	0,22
5900-12	20	3/4"	1 1/16-12	42	27	0,34

5050

**JIC Swivel female - Male UNF
(ISO 11926)**

SWS

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L3	CH1	CH3	
5050-04	6	1/4"	7/16-20	7/16-20	27	9	14	14	0,03
5050-05	8	5/16"	1/2-20	1/2-20	28	9	17	17	0,033
5050-06	10	3/8"	9/16-18	9/16-18	32	10	17	19	0,038
5050-08	12	1/2"	3/4-16	3/4-16	33	11	22	22	0,065
5050-10	16	5/8"	7/8-14	7/8-14	36.5	12.5	27	27	0,115
5050-12	20	3/4"	1 1/16-12	1 1/16-12	41	15	32	32	0,185
5050-16	25	1"	1 5/16-12	1 5/16-12	43.5	15	41	41	0,235
5050-20	32	1.1/4"	1 5/8-12	1 5/8-12	47	15	50	50	0,5
5050-24	38	1.1/2"	1 7/8-12	1 7/8-12	51.5	15	55	60	0,69

5036

JIC Swivel female - Male BSPP (Form E ISO 1179-2)

SWS

Part number	Dimensions									Weight kg/unit
	Ø									
	tube mm	tube inch	F	F1	D	L	L3	CH1	CH3	
5036-02-04	6	1/4"	7/16-20	G 1/8	26	25	8	14	14	0,03
5036-04-04	6	1/4"	7/16-20	G 1/4	26	30.5	12	19	14	0,04
5036-04-05	8	5/16"	1/2-20	G 1/4	27	31.5	12	19	17	0,042
5036-04-06	10	3/8"	9/16-18	G 1/4	28	32.5	12	19	19	0,045
5036-06-06	10	3/8"	9/16-18	G 3/8	30	34.5	12	22	19	0,06
5036-06-08	12	1/2"	3/4-16	G 3/8	32	33	12	22	22	0,065
5036-06-10	14-16	5/8"	7/8-14	G 3/8	36	34	12	24	27	0,085
5036-08-08	12	1/2"	3/4-16	G 1/2	34	36.5	14	27	22	0,098
5036-08-10	14-16	5/8"	7/8-14	G 1/2	38	37	14	27	27	0,125
5036-12-12	18-20	3/4"	1 1/16-12	G 3/4	39	41	16	32	32	0,27
5036-12-16	25	1"	1 5/16-12	G 3/4	43	42.5	16	36	41	0,32
5036-16-16	25	1"	1 5/16-12	G 1	44	45	18	41	41	0,4
5036-20-20	30-32	1.1/4"	1 5/8-12	G 1.1/4	47	55	20	50	50	0,58
5036-24-24	38	1.1/2"	1 7/8-12	G 1.1/2	55	57	22	55	60	0,79

5035

JIC Swivel female - Male BSPP
(ISO 1179)

SWS

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L3	CH1	CH3	
5035-04-02	6	1/4"	7/16-20	G 1/8	25	8	14	14	0,03
5035-04-04	6	1/4"	7/16-20	G 1/4	30.5	12	19	14	0,039
5035-04-06	6	1/4"	7/16-20	G 3/8	31.5	12	22	14	0,057
5035-05-04	8	5/16"	1/2-20	G 1/4	31.5	12	19	17	0,042
5035-05-06	8	5/16"	1/2-20	G 3/8	31.5	12	22	17	0,057
5035-06-04	10	3/8"	9/16-18	G 1/4	32.5	12	19	19	0,046
5035-06-06	10	3/8"	9/16-18	G 3/8	32.5	12	22	19	0,061
5035-06-08	10	3/8"	9/16-18	G 1/2	34.5	14	27	19	0,089
5035-08-04	12	1/2"	3/4-16	G 1/4	33	12	19	22	0,055
5035-08-06	12	1/2"	3/4-16	G 3/8	33	12	22	22	0,062
5035-08-08	12	1/2"	3/4-16	G 1/2	36.5	14	27	22	0,098
5035-10-06	16	5/8"	7/8-14	G 3/8	34	12	24	27	0,084
5035-10-08	16	5/8"	7/8-14	G 1/2	37	14	27	27	0,127
5035-10-12	16	5/8"	7/8-14	G 3/4	41	16	36	27	0,25
5035-12-08	20	3/4"	1 1/16-12	G 1/2	37	14	27	32	0,15
5035-12-12	20	3/4"	1 1/16-12	G 3/4	41	16	36	32	0,27
5035-12-16	20	3/4"	1 1/16-12	G 1	43.5	18	41	41	0,36
5035-16-12	25	1"	1 5/16-12	G 3/4	42.5	16	36	41	0,32
5035-16-16	25	1"	1 5/16-12	G 1	45	18	41	41	0,4
5035-20-20	30	0	1 5/8-12	G 1.1/4	55	20	50	50	0,58
5035-24-24	38	1.1/2"	1 7/8-12	G 1.1/2	57	22	55	60	0,79

5037

JIC Swivel female - Male Metric (Form E ISO 9974-2)

SWS

Part number	Dimensions									Weight kg/unit
	Ø									
	tube mm	tube inch	F	F1	D	L	L3	CH1	CH3	
5037-10-04	6	1/4"	7/16-20	M10x1	24.5	25	8	14	14	0,028
5037-12-05	8	5/16"	1/2-20	M12x1,5	26	30	12	17	17	0,032
5037-14-06	10	3/8"	9/16-18	M14x1,5	26.8	32	12	19	19	0,042
5037-16-08	12	1/2"	3/4-16	M16x1,5	29.6	32.5	12	22	22	0,062
5037-18-08	12	1/2"	3/4-16	M18x1,5	30.6	33.5	12	24	22	0,07
5037-18-10	14-16	5/8"	7/8-14	M18x1,5	34.6	34	12	24	27	0,125
5037-22-10	14-16	5/8"	7/8-14	M22x1,5	36.1	37	14	27	27	0,155
5037-22-12	18-20	3/4"	1 1/16-12	M22x1,5	36.2	38	14	27	32	0,16
5037-27-12	18-20	3/4"	1 1/16-12	M27x2	36.7	41	16	32	32	0,175
5037-33-16	25	1"	1 5/16-12	M33x2	41.4	43	18	41	41	0,26
5037-42-20	30-32	1.1/4"	1 5/8-12	M42x2	43.8	50.5	20	50	50	0,485

5038

JIC Swivel female - Male Metric (ISO 6149)

SWS

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L3	CH1	CH3	
5038-10-04	6	1/4"	7/16-20	M10x1	26.5	9.5	14	14	0,025
5038-10-05	8	5/16"	1/2-20	M10x1	27.5	9.5	14	17	0,04
5038-12-04	6	1/4"	7/16-20	M12x1,5	28	11	17	14	0,03
5038-12-05	8	5/16"	1/2-20	M12x1,5	29	11	17	17	0,065
5038-14-06	10	3/8"	9/16-18	M14x1,5	31	11	19	19	0,07
5038-16-06	10	3/8"	9/16-18	M16x1,5	32.5	12.5	22	19	0,08
5038-16-08	12	1/2"	3/4-16	M16x1,5	33	12.5	22	22	0,085
5038-18-08	12	1/2"	3/4-16	M18x1,5	35.5	14	24	22	0,095
5038-18-10	14-16	5/8"	7/8-14	M18x1,5	36	14	24	27	0,11
5038-22-10	14-16	5/8"	7/8-14	M22x1,5	38	15	27	27	0,12
5038-22-12	18-20	3/4"	1 1/16-12	M22x1,5	39	15	27	32	0,185
5038-27-12	18-20	3/4"	1 1/16-12	M27x2	43.5	18.5	32	32	0,2
5038-27-16	25	1"	1 5/16-12	M27x2	45	18.5	32	41	0,23
5038-33-16	25	1"	1 5/16-12	M33x2	45.5	18.5	41	41	0,25
5038-42-20	30-32	1.1/4"	1 5/8-12	M42x2	49.5	19	50	50	0,5
5038-48-24	38	1.1/2"	1 7/8-12	M48x2	54.5	21.5	55	60	0,69

JIC Straight swivel nut union (ISO 8434-2)

SWS

Part number	Dimensions						Weight kg/unit
	Ø						
	tube mm	tube inch	F	L	CH1	CH3	
5045-06	10	3/8"	9/16-18	26	19	19	0,04
5045-08	12	1/2"	3/4-16	29.5	22	22	0,07
5045-10	14-16	5/8"	7/8-14	31.5	27	27	0,12
5045-12	18-20	3/4"	1 1/16-12	33.5	32	32	0,19
5045-16	25	1"	1 5/16-12	38	41	41	0,245

5056

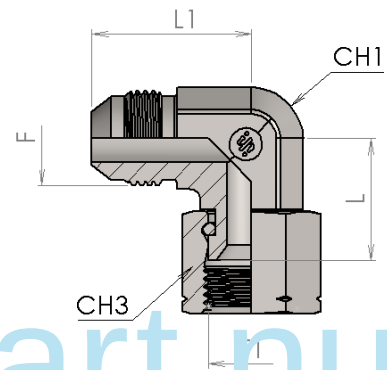
JIC Reducing male-female

SRDS

5060

90° Swivel Elbow
(ISO 8434-2)

SWE



Part number

5070

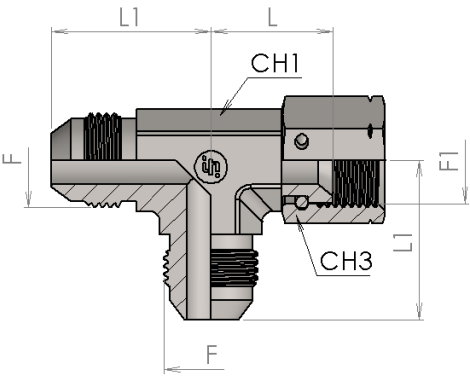
45° Swivel Elbow
(ISO 8434-2)

SWE45

Part number	Dimensions									Weight kg/unit
	Ø									
	tube mm	tube inch	F	F1	L	L1	CH1	CH2	CH3	
5070-04	6	1/4"	7/16-20	7/16-20	15	18.5	12	14	14	0,03
5070-05	8	5/16"	1/2-20	1/2-20	16	19.5	14	17	17	0,045
5070-06	10	3/8"	9/16-18	9/16-18	19	21	14	19	19	0,047
5070-08	12	1/2"	3/4-16	3/4-16	22	25	19	22	22	0,089
5070-10	16	5/8"	7/8-14	7/8-14	24	28	22	27	27	0,131
5070-12	20	3/4"	1.1/16-12	1.1/16-12	24	32.5	27	32	32	0,203
5070-16	25	1"	1.5/16-12	1.5/16-12	29.5	37.5	33	41	41	0,335
5070-20	30-32	1.1/4"	1.5/8-12	1.5/8-12	35.5	40.5	41	50	50	0,572

Swivel Run Tee
(ISO 8434-2)

SWRT



Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L1	CH1	CH3	
5080-04	6	1/4"	7/16-20	7/16-20	16.7	22	12	14	0,044
5080-05	8	5/16"	1/2-20	1/2-20	17.4	24	14	17	0,058
5080-06	10	3/8"	9/16-18	9/16-18	22.3	27	14	19	0,071
5080-08	12	1/2"	3/4-16	3/4-16	24.4	32	19	22	0,133
5080-10	16	5/8"	7/8-14	7/8-14	28.4	36	22	27	0,203
5080-12	20	3/4"	1.1/16-12	1.1/16-12	30.1	42	27	32	0,328
5080-16	25	1"	1.5/16-12	1.5/16-12	35.7	46	33	41	0,483
5080-20	30-32	1.1/4"	1.5/8-12	1.5/8-12	42.8	52	41	50	0,7018
5080-24	38	1.1/2"	1.7/8-12	1.7/8-12	47.2	59	50	60	1,1

5090

Swivel Branch Tee
(ISO 8434-2)

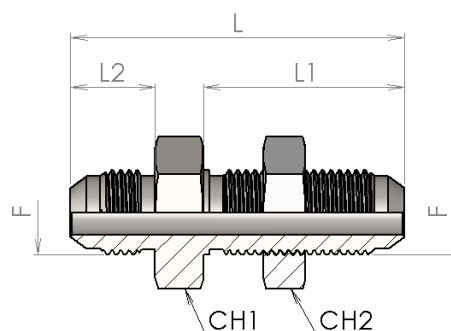
SWBT

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L1	CH1	CH3	
5090-04	6	1/4"	7/16-20	7/16-20	16.7	22	12	14	0,044
5090-05	8	5/16"	1/2-20	1/2-20	17.4	24	14	17	0,058
5090-06	10	3/8"	9/16-18	9/16-18	22.3	27	14	19	0,071
5090-08	12	1/2"	3/4-16	3/4-16	24.4	32	19	22	0,133
5090-10	16	5/8"	7/8-14	7/8-14	28.4	36	22	27	0,203
5090-12	20	3/4"	1.1/16-12	1.1/16-12	30.1	42	27	32	0,328
5090-16	25	1"	1.5/16-12	1.5/16-12	35.7	46	33	41	0,483
5090-20	30-32	1.1/4"	1.5/8-12	1.5/8-12	42.8	52	41	50	0,7018
5090-24	38	1.1/2"	1.7/8-12	1.7/8-12	47.2	59	50	60	1,1

5110

Bulkhead union (ISO 8434-2)

BHS



Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	L	L1	L2	CH1	CH2	
5110-04	6	1/4"	7/16-20	52.5	30.5	14	17	17	0,04
5110-05	8	5/16"	1/2-20	52.5	30.5	14	19	19	0,048
5110-06	10	3/8"	9/16-18	55.5	32.5	14	22	22	0,065
5110-08	12	1/2"	3/4-16	62	36.5	17	24	24	0,11
5110-10	16	5/8"	7/8-14	69.5	40	19	30	30	0,155
5110-12	20	3/4"	1 1/16-12	78.5	44.5	22	36	36	0,255
5110-16	25	1"	1 5/16-12	80	44.5	23	41	41	0,335
5110-20	32	1.1/4"	1 5/8-12	84	45.5	14	50	50	0,465
5110-24	38	1.1/2"	1 7/8-12	89.5	46	27.5	55	55	0,7

5130

90° Bulkhead union
(ISO 8434-2)

BHE

Part number	Dimensions							Weight kg/unit
	Ø							
	tube mm	tube inch	F	L	L1	CH1	CH2	
5130-04	6	1/4"	7/16-20	40.5	24.5	14	17	0,05
5130-05	8	5/16"	1/2-20	43.5	27	14	19	0,065
5130-06	10	3/8"	9/16-18	46	27.5	14	22	0,072
5130-08	12	1/2"	3/4-16	53.5	34	19	24	0,15
5130-10	16	5/8"	7/8-14	60	39	22	30	0,21
5130-12	20	3/4"	1 1/16-12	68	45	27	36	0,34
5130-16	25	1"	1 5/16-12	71	49.5	33	41	0,45

Bulkhead locknut

Part number	Dimensions			Weight kg/unit
	F	L	CH2	
J107-04	7/16-20	7	17	0,008
J107-05	1/2-20	7.5	19	0,007
J107-06	9/16-18	7	22	0,011
J107-08	3/4-16	9	24	0,015
J107-10	7/8-14	10	30	0,031
J107-12	1.1/16-12	12	36	0,054
J107-16	1.5/16-12	12	41	0,057
J107-20	1.5/8-12	13	50	0,087
J107-24	1.7/8-12	13	55	0,088

1906

Male stud connector JIC-NPTF

SDS

Part number	Dimensions							Weight kg/unit	
	Ø								
	tube mm	tube inch	F	F1	L	L2	L3	CH1	
1906-02-04	6	1/4"	7/16-20	1/8-27 NPTF	30	14	10	12	0,014
1906-02-05	8	5/16"	1/2-20	1/8-27 NPTF	31	14	10	14	0,017
1906-04-04	6	1/4"	7/16-20	1/4-18 NPTF	36	14	14.5	14	0,025
1906-04-05	8	5/16"	1/2-20	1/4-18 NPTF	36	14	14.5	15	0,025
1906-04-06	10	3/8"	9/16-18	1/4-18 NPTF	36	14	14.5	17	0,027
1906-06-06	10	3/8"	9/16-18	3/8-18 NPTF	35	14	14.5	19	0,03
1906-06-08	12	1/2"	3/4-16	3/8-18 NPTF	37.5	17	14.5	22	0,045
1906-06-10	16	5/8"	7/8-14	3/8-18 NPTF	43	19	14.5	24	0,063
1906-08-06	10	3/8"	9/16-18	1/2-14 NPTF	41	14	19	22	0,047
1906-08-08	12	1/2"	3/4-16	1/2-14 NPTF	43.5	17	19	22	0,074
1906-08-10	16	5/8"	7/8-14	1/2-14 NPTF	48	19	19	24	0,077
1906-08-12	20	3/4"	1 1/16-12	1/2-14 NPTF	49	22	19	30	0,1
1906-12-10	16	5/8"	7/8-14	3/4-14 NPTF	49.5	19	19	27	0,12
1906-12-12	20	3/4"	1 1/16-12	3/4-14 NPTF	52.5	22	19	30	0,12
1906-12-16	25	1"	1 5/16-12	3/4-14 NPTF	52	23	19	36	0,15
1906-16-12	20	3/4"	1 1/16-12	1-11.1/2 NPTF	56	22	24	36	0,175
1906-16-16	25	1"	1 5/16-12	1-11.1/2 NPTF	58.5	23	24	36	0,19
1906-20-20	32	1.1/4"	1 5/8-12	1.1/4-1.1/2 NPTF	60.5	24	24.6	46	0,315
1906-24-24	38	1.1/2"	1 7/8-12	1.1/2-11.1/2 NPTF	66	27.5	25.5	50	0,43
1906-32-32	50	2"	2 1/2-12	2-11/12 NPTF	77.6	33.9	26.2	65	0,774

90° Male stud Elbow JIC-NPTF

SDE

Part number	Dimensions						Weight kg/unit	
	Ø							
	tube mm	tube inch	F	F1	L	L1	CH1	
5140-02-04	6	1/4"	7/16-20	1/8-27 NPTF	19.5	22	12	0,023
5140-02-05	8	5/16"	1/2-20	1/8-27 NPTF	24.5	24	14	0,029
5140-04-04	6	1/4"	7/16-20	1/4-18 NPTF	27.5	23	14	0,042
5140-04-05	8	5/16"	1/2-20	1/4-18 NPTF	27.5	24	14	0,042
5140-04-06	10	3/8"	9/16-18	1/4-18 NPTF	27.5	27	14	0,045
5140-06-06	10	3/8"	9/16-18	3/8-18 NPTF	31	29.5	19	0,076
5140-06-08	12	1/2"	3/4-16	3/8-18 NPTF	31	32	19	0,086
5140-06-10	14-16	5/8"	7/8-14	3/8-18 NPTF	33.5	36	22	0,127
5140-08-06	10	3/8"	9/16-18	1/2-14 NPTF	36	31.5	22	0,117
5140-08-08	12	1/2"	3/4-16	1/2-14 NPTF	36	34	22	0,125
5140-08-10	14-16	5/8"	7/8-14	1/2-14 NPTF	36	36	22	0,129
5140-08-12	18-20	3/4"	1.1/16-12	1/2-14 NPTF	38	42	27	0,204
5140-12-08	12	1/2"	3/4-16	3/4-14 NPTF	40.5	37	27	0,19
5140-12-10	14-16	5/8"	7/8-14	3/4-14 NPTF	40.5	39	27	0,192
5140-12-12	18-20	3/4"	1.1/16-12	3/4-14 NPTF	40.5	42	27	0,198
5140-12-16	25	1"	1.5/16-12	3/4-14 NPTF	45	46	33	0,318
5140-16-16	25	1"	1.5/16-12	1-11.1/2 NPTF	50	46	33	0,328
5140-20-20	30-32	1.1/4"	1.5/8-12	1.1/4-11.1/2 NPTF	60.5	52	41	0,549
5140-24-24	38	1.1/2"	1.7/8-12	1.1/2-11.1/2 NPTF	67	59	50	0,747

5150

45° Male stud Elbow JIC-NPTF

SDE45

Part number	Dimensions						Weight kg/unit	
	Ø							
	tube mm	tube inch	F	F1	L	L1	CH1	
5150-02-04	6	1/4"	7/16-20	1/8-27 NPTF	16.5	18.5	12	0,02
5150-02-05	8	5/16"	1/2-20	1/8-27 NPTF	16.5	19.5	14	0,025
5150-04-04	6	1/4"	7/16-20	1/4-18 NPTF	22	21	14	0,03
5150-04-05	8	5/16"	1/2-20	1/4-18 NPTF	22	21	14	0,03
5150-04-06	10	3/8"	9/16-18	1/4-18 NPTF	22	21	14	0,027
5150-06-06	10	3/8"	9/16-18	3/8-18 NPTF	24	22	19	0,052
5150-06-08	12	1/2"	3/4-16	3/8-18 NPTF	24	25	19	0,06
5150-06-10	14-16	5/8"	7/8-14	3/8-18 NPTF	25	28	22	0,095
5150-08-08	12	1/2"	3/4-16	1/2-14 NPTF	29.5	25	22	0,092
5150-08-10	14-16	5/8"	7/8-14	1/2-14 NPTF	29.5	28	22	0,092
5150-08-12	18-20	3/4"	1.1/16-12	1/2-14 NPTF	30.5	32.5	27	0,145
5150-12-12	18-20	3/4"	1.1/16-12	3/4-14 NPTF	30.5	32.5	27	0,15
5150-12-16	25	1"	1.5/16-12	3/4-14 NPTF	32.5	37	33	0,215
5150-16-16	25	1"	1.5/16-12	1-11.1/2 NPTF	37.5	37	33	0,24
5150-20-20	30-32	1.1/4"	1.5/8-12	1.1/4-11.1/2 NPTF	42.5	40.5	41	0,385

NPTF Run Tee

SDRT

Part number	Dimensions							Weight kg/unit
	Ø							
	tube mm	tube inch	F	F1	L	L1	CH1	
5160-02-04	6	1/4"	7/16-20	1/8-27 NPTF	19.5	22	12	0,031
5160-02-05	8	5/16"	1/2-20	1/8-27 NPTF	24.5	24	14	0,037
5160-04-04	6	1/4"	7/16-20	1/4-18 NPTF	27.5	23	14	0,049
5160-04-06	10	3/8"	9/16-18	1/4-18 NPTF	27.5	27	14	0,057
5160-06-06	10	3/8"	9/16-18	3/8-18 NPTF	31	29.5	22	0,077
5160-06-08	12	1/2"	3/4-16	3/8-18 NPTF	31	32	19	0,113
5160-08-08	12	1/2"	3/4-16	1/2-16 NPTF	36	34	19	0,164
5160-08-10	14-16	5/8"	7/8-14	1/2-14 NPTF	36	36	22	0,173
5160-12-12	18-20	3/4"	1.1/16-12	3/4-14 NPTF	40.5	42	27	0,272
5160-16-16	25	1"	1.5/16-12	1-11.1/2 NPTF	50	46	33	0,413
5160-20-20	30-32	1.1/4"	1.5/8-12	1.1/4-11.1/2 NPTF	60.5	52	41	0,681
5160-24-24	38	1.1/2"	1.7/8-12	1.1/2-11.1/2 NPTF	67	59	50	0,905

5170

NPT Branch Tee

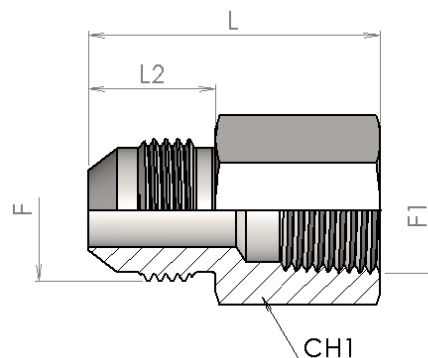
SDBT

Part number	Dimensions							Weight kg/unit
	Ø							
	tube mm	tube inch	F	F1	L	L1	CH1	
5170-02-04	6	1/4"	7/16-20	1/8-27 NPTF	19.5	22	12	0,031
5170-02-05	8	5/16"	1/2-20	1/8-27 NPTF	24.5	24	14	0,037
5170-04-04	6	1/4"	7/16-20	1/4-18 NPTF	27.5	23	14	0,049
5170-04-06	10	3/8"	9/16-18	1/4-18 NPTF	27.5	27	14	0,057
5170-06-06	10	3/8"	9/16-18	3/8-18 NPTF	31	29.5	19	0,077
5170-06-08	12	1/2"	3/4-16	3/8-18 NPTF	31	32	19	0,113
5170-08-08	12	1/2"	3/4-16	1/2-14 NPTF	36	34	22	0,164
5170-08-10	14-16	5/8"	7/8-14	1/2-14 NPTF	36	36	22	0,173
5170-12-12	18-20	3/4"	1.1/16-12	3/4-14 NPTF	40.5	42	27	0,272
5170-16-16	25	1"	1.5/16-12	1-11.1/2 NPTF	50	46	33	0,413
5170-20-20	30-32	1.1/4"	1.5/8-12	1.1/4-11.1/2 NPTF	60.5	52	41	0,681
5170-24-24	38	1.1/2"	1.7/8-12	1.1/2-11.1/2 NPTF	67	59	50	0,905

5180

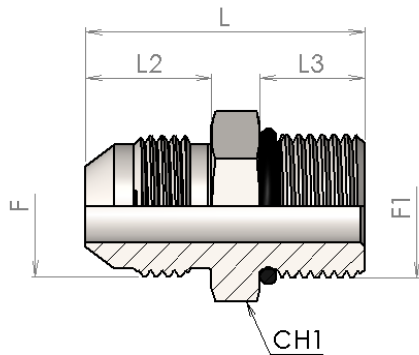
Male JIC -Female NPTF stud connector

SWS



Part number	Dimensions							Weight kg/unit
	Ø							
	tube mm	tube inch	F	F1	L	L2	CH1	
5180-02-04	6	1/4"	7/16-20	1/8-27 NPTF	30	14	14	0,045
5180-02-05	8	5/16"	1/2-20	1/8-27 NPTF	30	14	14	0,04
5180-04-05	8	5/16"	1/2-20	1/4-18 NPTF	35.5	14	19	0,045
5180-04-06	10	3/8"	9/16-18	1/4-18 NPTF	35.5	14	19	0,04
5180-06-06	10	3/8"	9/16-18	3/8-18 NPTF	36.5	14	22	0,065
5180-06-08	12	1/2"	3/4-16	3/8-18 NPTF	39.5	17	22	0,045
5180-08-10	16	5/8"	7/8-14	1/2-14 NPTF	48	19.5	30	0,125
5180-12-12	20	3/4"	1.1/16-12	3/4-14 NPTF	52.5	22	36	0,19
5180-16-16	25	1"	1.5/16-12	1-11.1/2 NPTF	59.5	23	41	0,28
5180-20-20	30-32	1.1/4"	1.5/8-12	1.1/4-1.1/2 NPTF	63	24.5	50	0,41
5180-24-24	38	1.1/2"	1.7/8-12	1.1/2-11.1/2 NPTF	66.5	27.5	60	0,37

1907



Male stud connector JIC-UNF (ISO 11926)

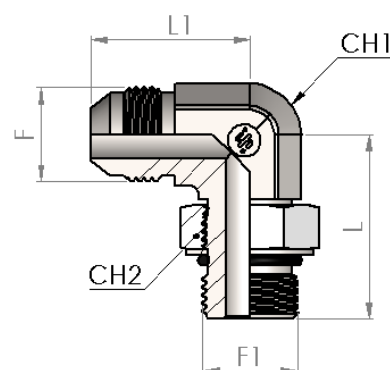
SDS

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L2	L3	CH1	
1907-04-04	6	1/4"	7/16-20	7/16-20	31	14	9	14	0,015
1907-04-05	6	1/4"	7/16-20	1/2-20	31	14	9	17	0,025
1907-04-06	6	1/4"	7/16-20	9/16-18	32.5	14	10	17	0,027
1907-05-05	8	5/16"	1/2-20	1/2-20	31	14	9	17	0,02
1907-06-06	10	3/8"	9/16-18	9/16-18	33	14	10	17	0,025
1907-06-08	10	3/8"	9/16-18	3/4-16	35	14	11	22	0,045
1907-08-08	12	1/2"	3/4-16	3/4-16	37.5	17	11	22	0,06
1907-08-10	12	1/2"	3/4-16	7/8-14	40	17	12.5	27	0,075
1907-08-12	12	1/2"	3/4-16	1 1/16-12	44.5	17	15	32	0,125
1907-10-08	14-16	5/8"	7/8-14	3/4-16	40	19	11	24	0,065
1907-10-10	14-16	5/8"	7/8-14	7/8-14	43	19	12.5	27	0,075
1907-10-12	14-16	5/8"	7/8-14	1 1/16-12	47.5	19	15	32	0,135
1907-12-08	18-20	3/4"	1 1/16-12	3/4-16	44.5	22	11	27	0,1
1907-12-10	18-20	3/4"	1 1/16-12	7/8-14	47.5	22	12.5	27	0,11
1907-12-12	18-20	3/4"	1 1/16-12	1 1/16-12	50	22	15	32	0,135
1907-12-16	18-20	3/4"	1 1/16-12	1 5/16-12	51	22	15	38	0,2
1907-16-12	25	1"	1 5/16-12	1 1/16-12	50.5	23	15	36	0,2
1907-16-16	25	1"	1 5/16-12	1 5/16-12	52	23	15	38	0,205
1907-20-20	30-32	1.1/4"	1 5/8-12	1 5/8-12	55	24	15	50	0,364
1907-24-24	38	1.1/2"	1 7/8-12	1 7/8-12	60	27.5	15	55	0,487

5190

90° Adjustable stud elbow JIC-UNF (ISO 11926)

SDE



Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L1	CH1	CH2	
5190-04	6	1/4"	7/16-20	7/16-20	27	22	12	14	0,037
5190-04-05	8	5/16"	1/2-20	7/16-20	28.5	24	14	14	0,055
5190-05	8	5/16"	1/2-20	1/2-20	30	24	14	17	0,047
5190-05-06	10	3/8"	9/16-18	1/2-20	31.5	27	14	17	0,099
5190-06	10	3/8"	9/16-18	9/16-18	33	27	14	19	0,063
5190-06-08	12	1/2"	3/4-16	9/16-18	35	32	19	19	0,13
5190-08	12	1/2"	3/4-16	3/4-16	37	32	19	24	0,16
5190-08-10	16	5/8"	7/8-14	3/4-16	40	36	22	24	0,18
5190-10	16	5/8"	7/8-14	7/8-14	43	36	22	27	0,186
5190-10-12	20	3/4"	1.1/16-12	7/8-14	46.5	42	27	27	0,297
5190-12	20	3/4"	1.1/16-12	1.1/16-12	50	42	27	36	0,301
5190-12-16	25	1"	1.5/16-12	1.1/16-12	51.5	46	33	36	0,418
5190-16	25	1"	1.5/16-12	1.5/16-12	53	46	33	41	0,426
5190-16-20	30-32	1.1/4"	1.5/8-12	1.5/16-12	55.5	52	41	41	0,65
5190-20	30-32	1.1/4"	1.5/8-12	1.5/8-12	58	52	41	50	0,674
5190-20-24	38	1.1/2"	1.7/8-12	1.5/8-12	60.5	59	50	50	0,92
5190-24	38	1.1/2"	1.7/8-12	1.7/8-12	63	59	50	55	0,917

5200

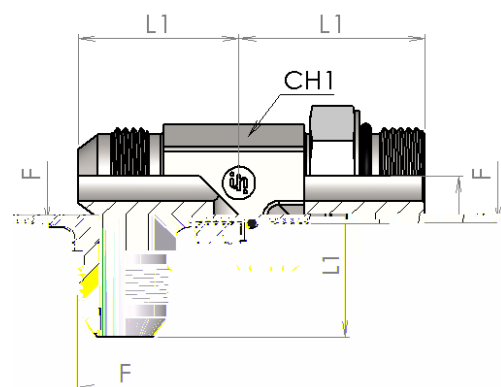
45° Adjustable stud elbow
JIC-UNF
(ISO 11926)

SDE45

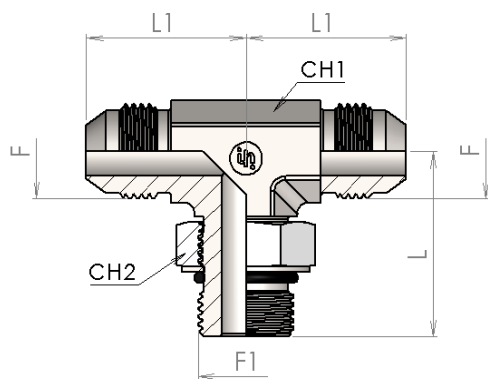
Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L1	CH1	CH2	
5200-04	6	1/4"	7/16-20	7/16-20	27	20	12	14	0,034
5200-05	8	5/16"	1/2-20	1/2-20	28	21	14	17	0,042
5200-06	10	3/8"	9/16-18	9/16-18	30	21.5	14	19	0,052
5200-08	12	1/2"	3/4-16	3/4-16	33.5	26	19	24	0,104
5200-10	16	5/8"	7/8-14	7/8-14	39	29	22	27	0,157
5200-12	20	3/4"	1.1/16-12	1.1/16-12	44	33	27	36	0,258
5200-16	25	1"	1.5/16-12	1.5/16-12	47	37.5	33	41	0,375
5200-20	30-32	1.1/4"	1.5/8-12	1.5/8-12	48.5	40.5	41	50	0,57

Adjustable stud Run Tee JIC-UNF (ISO 11926)

SDRT



5220



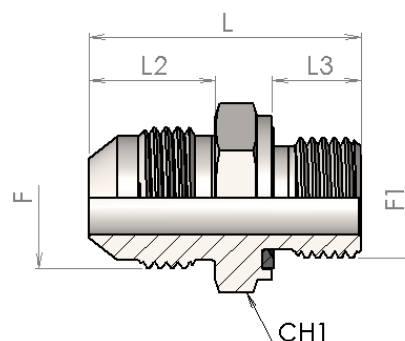
Adjustable stud Branch Tee JIC-UNF (ISO 11926)

SDBT

5805

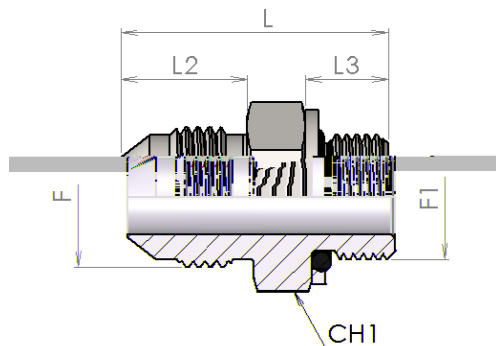
Male stud connector JIC-BSPP (Form E ISO 1179-2)

SDS



Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L2	L3	CH1	
5805-02-04	6	1/4"	7/16-20	G 1/8	30	14	8	14	0,02
5805-04-04	6	1/4"	7/16-20	G 1/4	36.5	14	12	19	0,034
5805-04-05	8	5/16"	1/2-20	G 1/4	35	14	12	19	0,03
5805-04-06	10	3/8"	9/16-18	G 1/4	35	14	12	19	0,028
5805-04-08	12	1/2"	3/4-16	G 1/4	39.5	17	12	22	0,04
5805-06-04	6	1/4"	7/16-20	G 3/8	36.5	14	12	22	0,047
5805-06-05	8	5/16"	1/2-20	G 3/8	36.5	14	12	22	0,047
5805-06-06	10	3/8"	9/16-18	G 3/8	36.5	14	12	22	0,04
5805-06-08	12	1/2"	3/4-16	G 3/8	38.5	17	12	22	0,05
5805-06-10	14-16	5/8"	7/8-14	G 3/8	42.5	19	12	24	0,065
5805-08-06	10	3/8"	9/16-18	G 1/2	39	14	14	27	0,095
5805-08-08	12	1/2"	3/4-16	G 1/2	43	17	14	27	0,1
5805-08-10	16	5/8"	7/8-14	G 1/2	44.5	19	14	27	0,103
5805-08-12	18-20	3/4"	1 1/16-12	G 1/2	49	22	14	30	0,118
5805-12-08	12	1/2"	3/4-16	G 3/4	47	17	16	32	0,1
5805-12-10	14-16	5/8"	7/8-14	G 3/4	49.5	19	16	32	0,16
5805-12-12	20	3/4"	1 1/16-12	G 3/4	51	22	16	32	0,165
5805-12-16	25	1"	1 5/16-12	G 3/4	53	23	16	36	0,217
5805-16-12	18-20	3/4"	1 1/16-12	G 1	55	22	18	41	0,292
5805-16-16	25	1"	1 5/16-12	G 1	55	23	18	41	0,262
5805-16-20	30-32	1.1/4"	1 5/8-12	G 1	58	24	18	46	0,255
5805-20-16	25	1"	1 5/16-12	G 1.1/4	59.5	23	20	50	0,386
5805-20-20	30-32	1.1/4"	1 5/8-12	G 1.1/4	60	24	20	50	0,375
5805-20-24	38	1.1/2"	1 7/8-12	G 1.1/4	66	27.5	20	50	0,42
5805-24-24	38	1.1/2"	1 7/8-12	G 1.1/2	67	27.5	22	55	0,48

1915



**Male stud connector
JIC-BSPP
(ISO 1179)**

SDS

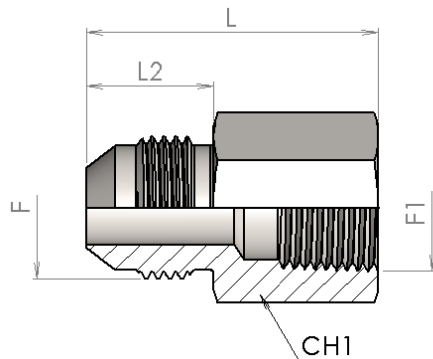
Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L2	L3	CH1	
1915-02-04	6	1/4"	7/16-20	G 1/8	30	14	8	14	0,015
1915-02-05	8	5/16"	1/2-20	G 1/8	29	14	8	14	0,02
1915-04-04	6	1/4"	7/16-20	G 1/4	34.5	14	12	19	0,034
1915-04-05	8	5/16"	1/2-20	G 1/4	34	14	12	19	0,03
1915-04-06	10	3/8"	9/16-18	G 1/4	34	14	12	19	0,028
1915-04-08	12	1/2"	3/4-16	G 1/4	37.5	17	12	22	0,045
1915-06-04	6	1/4"	7/16-20	G 3/8	34.5	14	12	22	0,047
1915-06-05	8	5/16"	1/2-20	G 3/8	34.5	14	12	22	0,047
1915-06-06	10	3/8"	9/16-18	G 3/8	34.5	14	12	22	0,04
1915-06-08	12	1/2"	3/4-16	G 3/8	38	17	12	22	0,05
1915-06-10	14-16	5/8"	7/8-14	G 3/8	40	19	12	24	0,065
1915-08-06	10	3/8"	9/16-18	G 1/2	40	14	14	27	0,02
1915-08-08	12	1/2"	3/4-16	G 1/2	41	17	14	27	0,095
1915-08-10	16	5/8"	7/8-14	G 1/2	44	19	14	27	0,095
1915-08-12	18-20	3/4"	1 1/16-12	G 1/2	47	22	14	30	0,115
1915-12-08	12	1/2"	3/4-16	G 3/4	45	17	16	36	0,1
1915-12-10	14-16	5/8"	7/8-14	G 3/4	47	19	16	36	0,16
1915-12-12	20	3/4"	1 1/16-12	G 3/4	50	22	16	36	0,17
1915-12-16	25	1"	1 5/16-12	G 3/4	51	23	16	36	0,175
1915-16-12	18-20	3/4"	1 1/16-12	G 1	52.5	22	18	41	0,21
1915-16-16	25	1"	1 5/16-12	G 1	53.5	23	18	41	0,22
1915-16-20	30-32	1.1/4"	1 5/8-12	G 1	55.5	24	18	46	0,33
1915-20-16	25	1"	1 5/16-12	G 1.1/4	57	23	20	50	0,385
1915-20-20	30-32	1.1/4"	1 5/8-12	G 1.1/4	58	24	20	50	0,33
1915-24-24	38	1.1/2"	1 7/8-12	G 1.1/2	65.5	27.5	22	55	0,48

Male stud connector JIC-BSP

SDS

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L2	L3	CH1	
1905-02-04	6	1/4"	7/16-20	G 1/8-28	28.5	14	8	14	0,014
1905-04-04	6	1/4"	7/16-20	G 1/4	33	14	11	19	0,03
1905-04-05	8	5/16"	1/2-20	G 1/4	33	14	11	19	0,03
1905-04-06	10	3/8"	9/16-18	G 1/4	33	14	11	19	0,03
1905-04-08	12	1/2"	3/4-16	G 1/4	38	17	12	22	0,062
1905-06-04	6	1/4"	7/16-20	G 3/8	35.5	14	12	22	0,047
1905-06-05	8	5/16"	1/2-20	G 3/8	35.5	14	12	22	0,047
1905-06-06	10	3/8"	9/16-18	G 3/8	35.5	14	12	22	0,047
1905-06-08	12	1/2"	3/4-16	G 3/8	38	17	12	22	0,062
1905-06-10	16	5/8"	7/8-14	G 3/8	42	19	12	24	0,068
1905-08-06	10	3/8"	9/16-18	G 1/2	39	14	14	27	0,068
1905-08-08	12	1/2"	3/4-16	G 1/2	41.5	17	14	27	0,079
1905-08-10	16	5/8"	7/8-14	G 1/2	44.5	19	14	27	0,085
1905-08-12	20	3/4"	1 1/16-12	G 1/2	47	22	14	27	0,12
1905-12-08	12	1/2"	3/4-16	G 3/4	43.5	17	16	32	0,145
1905-12-10	16	5/8"	7/8-14	G 3/4	46.5	19	16	32	0,155
1905-12-12	20	3/4"	1 1/16-12	G 3/4	49	22	16	32	0,162
1905-12-16	25	1"	1 5/16-12	G 3/4	52	23	16	36	0,175
1905-16-12	20	3/4"	1 1/16-12	G 1	52	22	19	41	0,21
1905-16-16	25	1"	1 5/16-12	G 1	54	23	19	41	0,215
1905-16-20	30	0	1 5/8-12	G 1	57	24	19	42	0,29
1905-20-20	30	0	1 5/8-12	G 1.1/4	58	24	20	50	0,435
1905-24-24	38	1.1/2"	1 7/8-12	G 1.1/2	62.5	27.5	22	55	0,61

5185



Male-Female connector JIC-BSP

SWS

Part number	Dimensions							Weight kg/unit
	Ø							
	tube mm	tube inch	F	F1	L	L2	CH1	
5185-02-04	6	1/4"	7/16-20	G 1/8	30	14	14	0,045
5185-02-05	8	5/16"	1/2-20	G 1/8	30	14	14	0,04
5185-04-04	6	1/4"	7/16-20	G 1/4	35.5	14	19	0,045
5185-04-05	8	5/16"	1/2-20	G 1/4	35.5	14	19	0,045
5185-04-06	10	3/8"	9/16-18	G 1/4	35.5	14	19	0,04
5185-04-08	12	1/2"	3/4-16	G 1/4	38.5	17	22	0,04
5185-06-06	10	3/8"	9/16-18	G 3/8	36.5	14	22	0,065
5185-06-08	12	1/2"	3/4-16	G 3/8	39.5	17	22	0,045
5185-08-06	10	3/8"	9/16-18	G 1/2	43	14	30	0,105
5185-08-08	12	1/2"	3/4-16	G 1/2	45.5	17	30	0,1
5185-08-10	14-16	5/8"	7/8-14	G 1/2	48	19.5	30	0,125
5185-08-12	18-20	3/4"	1.1/16-12	G 1/2	52	22	30	0,125
5185-12-12	18-20	3/4"	1.1/16-12	G 3/4	52.5	22	36	0,19
5185-16-16	25	1"	1.5/16-12	G 1	59.5	23	41	0,28
5185-20-20	30-32	1.1/4"	1.5/8-12	G 1.1/4	63	24.5	50	0,41
5185-24-24	38	1.1/2"	1.7/8-12	G 1.1/2	66.5	27.5	60	0,37

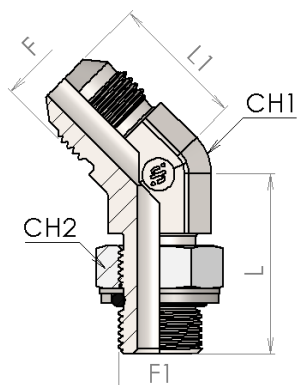
5230

90° Adjustable stud elbow JIC-BSP (ISO 1179)

SDE

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L1	CH1	CH2	
5230-02-04	6	1/4"	7/16-20	G 1/8	27	22	12	14	0,037
5230-02-05	8	5/16"	1/2-20	G 1/8	30	24	14	14	0,047
5230-04-04	6	1/4"	7/16-20	G 1/4	33	23	14	19	0,043
5230-04-05	8	5/16"	1/2-20	G 1/4	33	24	14	19	0,055
5230-04-06	10	3/8"	9/16-18	G 1/4	33	27	14	19	0,061
5230-04-08	12	1/2"	3/4-16	G 1/4	35	32	19	19	0,088
5230-04-10	14-16	5/8"	7/8-14	G 1/4	37	36	22	19	0,095
5230-06-04	6	1/4"	7/16-20	G 3/8	37	27	19	22	0,05
5230-06-05	8	5/16"	1/2-20	G 3/8	37	28	19	22	0,057
5230-06-06	10	3/8"	9/16-18	G 3/8	37	29.5	19	22	0,087
5230-06-08	12	1/2"	3/4-16	G 3/8	37	32	19	22	0,092
5230-06-10	14-16	5/8"	7/8-14	G 3/8	40	36	22	22	0,19
5230-08-04	6	1/4"	7/16-20	G 1/2	43	29	22	27	0,127
5230-08-05	8	5/16"	1/2-20	G 1/2	43	30	22	27	0,135
5230-08-06	10	3/8"	9/16-18	G 1/2	43	31.5	22	27	0,14
5230-08-08	12	1/2"	3/4-16	G 1/2	43	34	22	27	0,155
5230-08-10	14-16	5/8"	7/8-14	G 1/2	43	36	22	27	0,164
5230-08-12	18-20	3/4"	1.1/16-12	G 1/2	46.5	42	27	27	0,245
5230-12-08	12	1/2"	3/4-16	G 3/4	50	37	27	36	0,205
5230-12-10	14-16	5/8"	7/8-14	G 3/4	50	39	27	36	0,217
5230-12-12	18-20	3/4"	1.1/16-12	G 3/4	50	42	27	36	0,295
5230-12-16	25	1"	1.5/16-12	G 3/4	51.5	46	33	36	0,405
5230-16-12	18-20	3/4"	1.1/16-12	G 1	53	44	33	41	0,317
5230-16-16	25	1"	1.5/16-12	G 1	53	46	33	41	0,425
5230-16-20	30-32	1.1/4"	1.5/8-12	G 1	55.5	52	41	41	0,65
5230-20-16	25	1"	1.5/16-12	G 1.1/4-11	58	49	41	50	0,672
5230-20-20	30-32	1.1/4"	1.5/8-12	G 1.1/4-11	58	52	41	50	0,697
5230-20-24	38	1.1/2"	1.7/8-12	G 1.1/4-11	63	55.5	50	50	0,964
5230-24-24	38	1.1/2"	1.7/8-12	G 1.1/2-11	63	59	50	55	0,953

5235



45° Adjustable stud elbow JIC-BSP (ISO 1179)

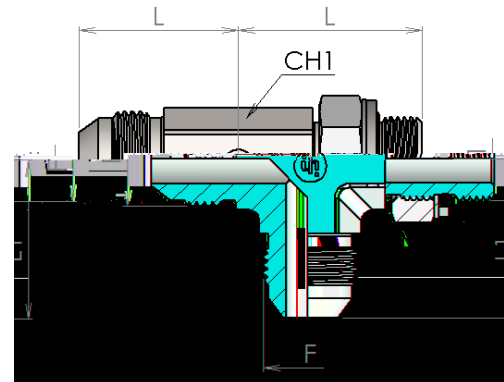
SDE45

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L1	CH1	CH2	
5235-02-04	6	1/4"	7/16-20	G 1/8	27	21	12	14	0,035
5235-02-05	8	5/16"	1/2-20	G 1/8	28.5	21.5	14	14	0,044
5235-04-04	6	1/4"	7/16-20	G 1/4	30	21.5	14	19	0,048
5235-04-05	8	5/16"	1/2-20	G 1/4	30	21.5	14	19	0,051
5235-04-06	10	3/8"	9/16-18	G 1/4	30	21.5	14	19	0,055
5235-06-04	6	1/4"	7/16-20	G 3/8	33.5	23.5	19	22	0,063
5235-06-05	8	5/16"	1/2-20	G 3/8	33.5	23	19	22	0,066
5235-06-06	10	3/8"	9/16-18	G 3/8	33.5	22	19	22	0,07
5235-06-08	12	1/2"	3/4-16	G 3/8	33.5	26	19	22	0,104
5235-08-06	10	3/8"	9/16-18	G 1/2	39	25.5	22	27	0,092
5235-08-08	12	1/2"	3/4-16	G 1/2	39	27.5	22	27	0,148
5235-08-10	14-16	5/8"	7/8-14	G 1/2	39	29	22	27	0,165
5235-08-12	18-20	3/4"	1.1/16-12	G 1/2	41.5	33	27	27	0,182
5235-12-08	12	1/2"	3/4-16	G 3/4	44	29.5	27	36	0,218
5235-12-10	14-16	5/8"	7/8-14	G 3/4	44	31	27	36	0,235
5235-12-12	18-20	3/4"	1.1/16-12	G 3/4	44	33	27	36	0,27
5235-12-16	25	1"	1.5/16-12	G 3/4	45.5	37.5	33	36	0,31
5235-16-16	25	1"	1.5/16-12	G 1	47	37.5	33	41	0,394
5235-20-20	30-32	1.1/4"	1.5/8-12	G 1.1/4	48.5	40.5	41	50	0,599

5240

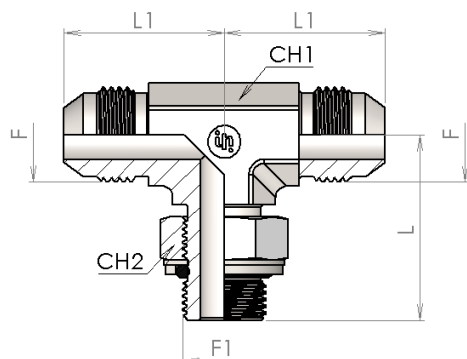
Adjustable stud Run Tee JIC-BSP (ISO 1179)

SDRT



Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L1	CH1	CH2	
5240-02-04	6	1/4"	7/16-20	G 1/8	27	22	12	14	0,047
5240-02-05	8	5/16"	1/2-20	G 1/8	30	24	14	14	0,061
5240-04-04	6	1/4"	7/16-20	G 1/4	33	23	14	19	0,06
5240-04-05	8	5/16"	1/2-20	G 1/4	33	24	14	19	0,072
5240-04-06	10	3/8"	9/16-18	G 1/4	33	27	14	19	0,078
5240-06-04	8	5/16"	7/16-20	G 3/8	37	27	19	22	0,1
5240-06-06	10	3/8"	9/16-18	G 3/8	37	29.5	19	22	0,148
5240-06-08	12	1/2"	3/4-16	G 3/8	37	32	19	22	0,154
5240-06-10	14-16	5/8"	7/8-14	G 3/8	40	36	22	22	0,24
5240-08-06	10	3/8"	9/16-18	G 1/2	43	31.5	22	27	0,148
5240-08-08	12	1/2"	3/4-16	G 1/2	43	34	22	27	0,223
5240-08-10	14-16	5/8"	7/8-14	G 1/2	43	36	22	27	0,231
5240-08-12	18-20	3/4"	1.1/16-12	G 1/2	46.5	42	27	27	0,314
5240-12-08	12	1/2"	3/4-16	G 3/4	50	37	27	36	0,289
5240-12-10	14-16	5/8"	7/8-14	G 3/4	50	39	27	36	0,301
5240-12-12	18-20	3/4"	1.1/16-12	G 3/4	50	42	27	36	0,379
5240-12-16	25	1"	1.5/16-12	G 3/4	51.5	46	33	36	0,489
5240-16-12	18-20	3/4"	1.1/16-12	G 1	53	44	33	41	0,461
5240-16-16	25	1"	1.5/16-12	G 1	53	46	33	41	0,569
5240-20-20	30-32	1.1/4"	1.5/8-12	G 1.1/4-11	58	52	41	50	1,075
5240-24-24	38	1.1/2"	1.7/8-12	G 1.1/2-11	63	59	50	55	1,3

5250



Adjustable stud Branch Tee JIC-BSP (ISO 1179)

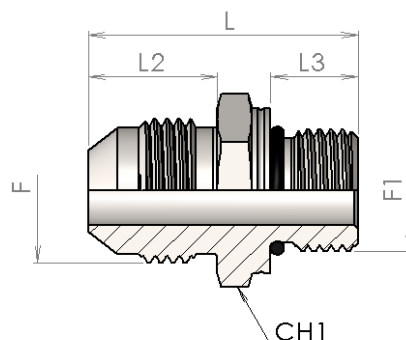
SDBT

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L1	CH1	CH2	
5250-02-04	6	1/4"	7/16-20	G 1/8	27	22	12	14	0,047
5250-02-05	8	5/16"	1/2-20	G 1/8	30	24	14	14	0,061
5250-04-04	6	1/4"	7/16-20	G 1/4	33	23	14	19	0,06
5250-04-05	8	5/16"	1/2-20	G 1/4	33	24	14	19	0,072
5250-04-06	10	3/8"	9/16-18	G 1/4	33	27	14	19	0,078
5250-06-04	8	5/16"	7/16-20	G 3/8	37	27	19	22	0,1
5250-06-06	10	3/8"	9/16-18	G 3/8	37	29.5	19	22	0,148
5250-06-08	12	1/2"	3/4-16	G 3/8	37	32	19	22	0,154
5250-06-10	14-16	5/8"	7/8-14	G 3/8	40	36	22	22	0,24
5250-08-06	10	3/8"	9/16-18	G 1/2	43	31.5	22	27	0,148
5250-08-08	12	1/2"	3/4-16	G 1/2	43	34	22	27	0,223
5250-08-10	14-16	5/8"	7/8-14	G 1/2	43	36	22	27	0,231
5250-08-12	18-20	3/4"	1.1/16-12	G 1/2	46.5	42	27	27	0,314
5250-12-08	12	1/2"	3/4-16	G 3/4	50	37	27	36	0,289
5250-12-10	14-16	5/8"	7/8-14	G 3/4	50	39	27	36	0,301
5250-12-12	18-20	3/4"	1.1/16-12	G 3/4	50	42	27	36	0,379
5250-12-16	25	1"	1.5/16-12	G 3/4	51.5	46	33	36	0,489
5250-16-12	18-20	3/4"	1.1/16-12	G 1	53	44	33	41	0,461
5250-16-16	25	1"	1.5/16-12	G 1	53	46	33	41	0,569
5250-20-20	30-32	1.1/4"	1.5/8-12	G 1.1/4-11	58	52	41	50	1,075
5250-24-24	38	1.1/2"	1.7/8-12	G 1.1/2-11	63	59	50	55	1,3

1910

Male stud connector JIC-METRIC (ISO 6149)

SDS



Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L2	L3	CH1	
1910-10-04	6	1/4"	7/16-20	M10x1	30	14	8.5	14	0,025
1910-10-05	8	5/16"	1/2-20	M10x1	30	14	8.5	14	0,03
1910-12-04	6	1/4"	7/16-20	M12x1,5	33	14	11	17	0,033
1910-12-05	8	5/16"	1/2-20	M12x1,5	32.5	14	11	17	0,037
1910-14-06	10	3/8"	9/16-18	M14x1,5	33.5	14	11	19	0,045
1910-16-06	10	3/8"	9/16-18	M16x1,5	35	14	11.5	22	0,055
1910-16-08	12	1/2"	3/4-16	M16x1,5	38	17	11.5	22	0,058
1910-18-08	12	1/2"	3/4-16	M18x1,5	39.5	17	12.5	24	0,075
1910-18-10	14-16	5/8"	7/8-14	M18x1,5	42	19	12.5	24	0,075
1910-22-10	14-16	5/8"	7/8-14	M22x1,5	43	19	13	27	0,1
1910-22-12	18-20	3/4"	1 1/16-12	M22x1,5	48	22	13	27	0,105
1910-27-12	18-20	3/4"	1 1/16-12	M27x2	49	22	16	32	0,16
1910-27-16	25	1"	1 5/16-12	M27x2	50.5	23	16	36	0,21
1910-33-16	25	1"	1 5/16-12	M33x2	51	23	16	41	0,275
1910-42-20	30-32	1.1/4"	1 5/8-12	M42x2	54.5	24	16	50	0,435
1910-48-24	38	1.1/2"	1 7/8-12	M48x2	59	27.5	17.5	55	0,57

5430

90° Adjustable stud elbow JIC-METRIC (ISO 6149)

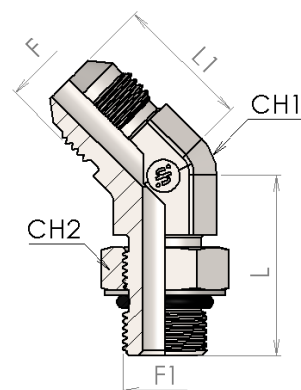
SDE

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L1	CH1	CH2	
5430-10-04	6	1/4"	7/16-20	M10x1	29	22	12	14	0,023
5430-12-04	6	1/4"	7/16-20	M12x1.5	33	23	14	17	0,028
5430-14-06	10	3/8"	9/16-18	M14x1.5	34	27	14	19	0,036
5430-16-06	10	3/8"	9/16-18	M16x1.5	38	29.5	19	22	0,074
5430-16-08	12	1/2"	3/4-16	M16x1.5	38	32	19	22	0,077
5430-18-08	12	1/2"	3/4-16	M18x1.5	41	32	19	24	0,078
5430-22-10	16	5/8"	7/8-14	M22x1.5	43	36	22	27	0,119
5430-27-12	20	3/4"	1.1/16-12	M27x2	52	42	27	32	0,208
5430-33-16	25	1"	1.5/16-12	M33x2	54	46	33	41	0,333
5430-42-20	30	1.1/4"	1.5/8-12	M42x2	60	52	41	50	0,575

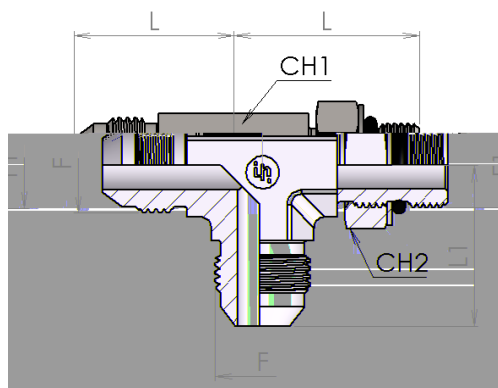
5440

**45° Adjustable stud elbow
JIC-METRIC
(ISO 6149)**

SDE45



5450



Adjustable stud Run Tee
JIC-METRIC
(ISO 6149)

SDRT

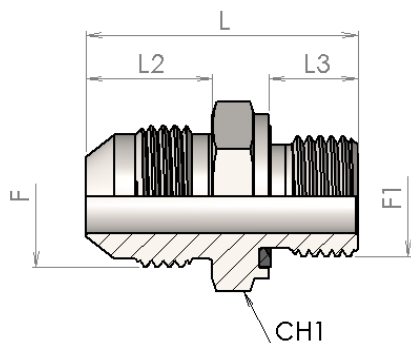
Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L1	CH1	CH2	
5450-10-04	6	1/4"	7/16-20	M10x1	29	22	12	14	0,027
5450-12-04	6	1/4"	7/16-20	M12x1.5	33	23	14	17	0,041
5450-14-06	10	3/8"	9/16-18	M14x1.5	34	27	14	19	0,053
5450-16-06	10	3/8"	9/16-18	M16x1.5	38	29.5	19	22	0,092
5450-16-08	12	1/2"	3/4-16	M16x1.5	38	32	19	22	0,095
5450-18-08	12	1/2"	3/4-16	M18x1.5	41	32	19	24	0,114
5450-22-10	16	5/8"	7/8-14	M22x1.5	43	36	22	27	0,175
5450-27-12	20	3/4"	1.1/16-12	M27x2	52	42	27	32	0,304
5450-33-16	25	1"	1.5/16-12	M33x2	54	46	33	41	0,491
5450-42-20	30	1.1/4"	1.5/8-12	M42x2	60	52	41	50	0,772
5450-48-24	38	1.1/2"	1.7/8-12	M48x2	67	59	50	55	1,069

Adjustable stud Branch Tee JIC-METRIC (ISO 6149)

SDBT

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L1	CH1	CH2	
5455-10-04	6	1/4"	7/16-20	M10x1	29	22	12	14	0,027
5455-12-04	6	1/4"	7/16-20	M12x1.5	33	23	14	17	0,041
5455-14-06	10	3/8"	9/16-18	M14x1.5	34	27	14	19	0,053
5455-16-06	10	3/8"	9/16-18	M16x1.5	38	29.5	19	22	0,092
5455-16-08	12	1/2"	3/4-16	M16x1.5	38	32	19	22	0,095
5455-18-08	12	1/2"	3/4-16	M18x1.5	41	32	19	24	0,114
5455-22-10	16	5/8"	7/8-14	M22x1.5	43	36	22	27	0,175
5455-27-12	20	3/4"	1.1/16-12	M27x2	52	42	27	32	0,304
5455-33-16	25	1"	1.5/16-12	M33x2	54	46	33	41	0,491
5455-42-20	30	1.1/4"	1.5/8-12	M42x2	60	52	41	50	0,772
5455-48-24	38	1.1/2"	1.7/8-12	M48x2	67	59	50	55	1,069

1775



Male stud connector JIC-METRIC (Form E ISO 9974-2)

SDS

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L2	L3	CH1	
1775-10-04	6	1/4"	7/16-20	M10x1	30	14	8	14	0,02
1775-10-05	8	5/16"	1/2-20	M10x1	30	14	8	14	0,017
1775-12-04	6	1/4"	7/16-20	M12x1,5	34	14	12	17	0,03
1775-12-05	8	5/16"	1/2-20	M12x1,5	34	14	12	17	0,028
1775-14-06	10	3/8"	9/16-18	M14x1,5	34	14	12	19	0,037
1775-16-06	10	3/8"	9/16-18	M16x1,5	36	14	12	22	0,05
1775-16-08	12	1/2"	3/4-16	M16x1,5	39	17	12	22	0,055
1775-18-08	12	1/2"	3/4-16	M18x1,5	39	17	12	24	0,07
1775-18-10	14-16	5/8"	7/8-14	M18x1,5	42	19	12	24	0,105
1775-22-10	14-16	5/8"	7/8-14	M22x1,5	45	19	14	27	0,16
1775-22-12	18-20	3/4"	1 1/16-12	M22x1,5	48	22	14	27	0,27
1775-27-12	18-20	3/4"	1 1/16-12	M27x2	51	22	16	32	0,43
1775-27-16	25	1"	1 5/16-12	M27x2	53	23	16	36	0,36
1775-33-16	25	1"	1 5/16-12	M33x2	55	23	18	41	0,43
1775-42-20	30-32	1.1/4"	1 5/8-12	M42x2	60	24	20	50	0,435
1775-48-24	38	1.1/2"	1 7/8-12	M48x2	67	27.5	22	55	0,58

Male stud connector JIC-METRIC with O-ring and retaining ring

SDS

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L2	L3	CH1	
1777-10-04	6	1/4"	7/16-20	M10x1	30	14	9	14	0,025
1777-10-05	8	5/16"	1/2-20	M10x1	30	14	9	14	0,025
1777-12-04	6	1/4"	7/16-20	M12x1,5	32.5	14	11.5	17	0,035
1777-12-05	8	5/16"	1/2-20	M12x1,5	32.5	14	11.5	17	0,035
1777-14-06	10	3/8"	9/16-18	M14x1,5	33.5	14	11.5	19	0,035
1777-16-06	10	3/8"	9/16-18	M16x1,5	34.5	14	12.5	22	0,05
1777-16-08	12	1/2"	3/4-16	M16x1,5	37.5	17	12.5	22	0,055
1777-18-08	12	1/2"	3/4-16	M18x1,5	39.5	17	13.5	24	0,065
1777-18-10	14-16	5/8"	7/8-14	M18x1,5	42	19	13.5	24	0,07
1777-22-10	14-16	5/8"	7/8-14	M22x1,5	44.5	19	15	27	0,09
1777-22-12	18-20	3/4"	1 1/16-12	M22x1,5	48	22	15	27	0,1
1777-27-12	18-20	3/4"	1 1/16-12	M27x2	52.5	22	18.5	32	0,155
1777-27-16	25	1"	1 5/16-12	M27x2	53.5	23	18.5	36	0,2
1777-33-16	25	1"	1 5/16-12	M33x2	54	23	18.5	41	0,265
1777-42-20	30-32	1.1/4"	1 5/8-12	M42x2	58	24	19.5	50	0,425
1777-48-24	38	1.1/2"	1 7/8-12	M48x2	65	27.5	21.5	55	0,545

5400

90° Adjustable stud elbow JIC-METRIC with O-ring and retaining ring

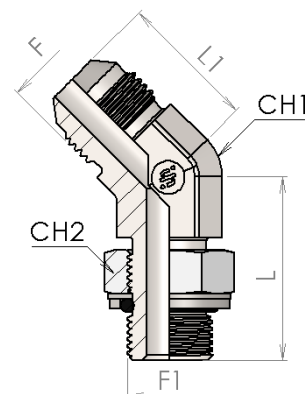
SDE

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L1	CH1	CH2	
5400-10-04	6	1/4"	7/16-20	M10x1	29	22	12	14	0,023
5400-10-05	8	5/16"	1/2-20	M10x1	31	24	14	14	0,029
5400-12-04	6	1/4"	7/16-20	M12x1.5	33	23	14	17	0,028
5400-12-05	8	5/16"	1/2-20	M12x1.5	33	24	14	17	0,029
5400-14-04	6	1/4"	7/16-20	M14x1.5	34	23	14	19	0,025
5400-14-05	8	5/16"	1/2-20	M14x1.5	34	24	14	19	0,03
5400-14-06	10	3/8"	9/16-18	M14x1.5	34	27	14	19	0,036
5400-16-06	10	3/8"	9/16-18	M16x1.5	38	29.5	19	22	0,074
5400-16-08	12	1/2"	3/4-16	M16x1.5	38	32	19	22	0,077
5400-18-08	12	1/2"	3/4-16	M18x1.5	41	32	19	24	0,078
5400-18-10	16	5/8"	7/8-14	M18x1.5	42	36	22	24	0,104
5400-22-10	16	5/8"	7/8-14	M22x1.5	43	36	22	27	0,119
5400-22-12	20	3/4"	1.1/16-12	M22x1.5	47.5	42	27	27	0,198
5400-27-12	20	3/4"	1.1/16-12	M27x2	52	42	27	32	0,208
5400-27-16	25	1"	1.5/16-12	M27x2	53	46	33	32	0,333
5400-33-12	20	3/4"	1.1/16-12	M33x2	54	44	33	41	0,317
5400-33-16	25	1"	1.5/16-12	M33x2	54	46	33	41	0,333
5400-42-12	20	3/4"	1.1/16-12	M42x2	60	48	41	50	0,517
5400-42-16	25	1"	1.5/16-12	M42x2	60	46	41	50	0,546
5400-42-20	30	1.1/4"	1.5/8-12	M42x2	60	52	41	50	0,575
5400-48-20	30	1.1/4"	1.5/8-12	M48x2	67	55.5	50	55	0,725
5400-48-24	38	1.1/2"	1.7/8-12	M48x2	67	59	50	55	0,872

5410

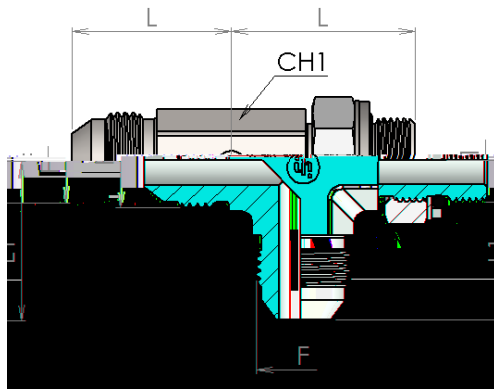
45° Adjustable stud elbow JIC-Metric with O'ring and retaining ring

SDE45



Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L1	CH1	CH2	
5410-10-04	6	1/4"	7/16-20	M10x1	27	21	12	14	0,023
5410-10-05	8	5/16"	1/2-20	M10x1	28.5	21.5	14	14	0,031
5410-12-04	6	1/4"	7/16-20	M12x1.5	30	21.5	14	17	0,025
5410-12-05	8	5/16"	1/2-20	M12x1.5	30	21.5	14	17	0,028
5410-14-05	8	5/16"	1/2-20	M14x1.5	32	21.5	14	19	0,031
5410-14-06	10	3/8"	9/16-18	M14x1.5	32	21.5	14	19	0,036
5410-16-06	10	3/8"	9/16-18	M16x1.5	34	23.5	19	22	0,058
5410-16-08	12	1/2"	3/4-16	M16x1.5	34	26	19	22	0,068
5410-18-08	12	1/2"	3/4-16	M18x1.5	36	26	19	24	0,078
5410-18-10	16	5/8"	7/8-14	M18x1.5	37	29	22	24	0,099
5410-22-10	16	5/8"	7/8-14	M22x1.5	38	29	22	27	0,119
5410-22-12	20	3/4"	1.1/16-12	M22x1.5	41.5	33	27	27	0,164
5410-27-12	20	3/4"	1.1/16-12	M27x2	45	33	27	32	0,208
5410-27-16	25	1"	1.5/16-12	M27x2	46.5	37.5	33	32	0,272
5410-33-16	25	1"	1.5/16-12	M33x2	48	37.5	33	41	0,287
5410-42-20	30	1.1/4"	1.5/8-12	M42x2	48,5	40,5	41	50	0,575

5420



Adjustable stud Run Tee JIC-METRIC with O-ring and retaining ring

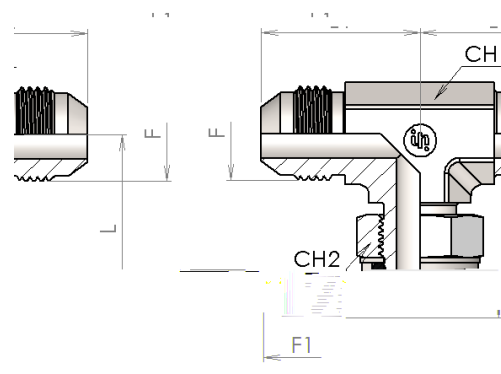
SDRT

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L1	CH1	CH2	
5420-10-04	6	1/4"	7/16-20	M10x1	29	22	12	14	0,027
5420-10-05	8	5/16"	1/2-20	M10x1	31	24	14	14	0,033
5420-12-04	6	1/4"	7/16-20	M12x1.5	33	23	14	17	0,041
5420-12-05	8	5/16"	1/2-20	M12x1.5	33	24	14	17	0,042
5420-14-05	8	5/16"	1/2-20	M14x1.5	34	24	14	19	0,050
5420-14-06	10	3/8"	9/16-18	M14x1.5	34	27	14	19	0,053
5420-16-06	10	3/8"	9/16-18	M16x1.5	38	29.5	19	22	0,092
5420-16-08	12	1/2"	3/4-16	M16x1.5	38	32	19	22	0,113
5420-18-08	12	1/2"	3/4-16	M18x1.5	41	32	19	24	0,114
5420-18-10	16	5/8"	7/8-14	M18x1.5	42	36	22	24	0,174
5420-22-10	16	5/8"	7/8-14	M22x1.5	43	36	22	27	0,175
5420-22-12	20	3/4"	1.1/16-12	M22x1.5	47.5	42	27	27	0,295
5420-27-12	20	3/4"	1.1/16-12	M27x2	52	42	27	32	0,304
5420-27-16	25	1"	1.5/16-12	M27x2	53	46	33	32	0,490
5420-33-16	25	1"	1.5/16-12	M33x2	54	46	33	41	0,530
5420-42-20	30	1.1/4"	1.5/8-12	M42x2	60	52	41	50	0,772
5420-48-24	38	1.1/2"	1.7/8-12	M48x2	67	59	50	55	1,069

5425

Adjustable stud Branch Tee JIC-METRIC with O-ring and retaining ring

SDBT



Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L1	CH1	CH2	
5425-10-04	6	1/4"	7/16-20	M10x1	29	22	12	14	0,027
5425-10-05	8	5/16"	1/2-20	M10x1	31	24	14	14	0,033
5425-12-04	6	1/4"	7/16-20	M12x1.5	33	23	14	17	0,041
5425-12-05	8	5/16"	1/2-20	M12x1.5	33	24	14	17	0,042
5425-14-05	8	5/16"	1/2-20	M14x1.5	34	24	14	19	0,050
5425-14-06	10	3/8"	9/16-18	M14x1.5	34	27	14	19	0,053
5425-16-06	10	3/8"	9/16-18	M16x1.5	38	29.5	19	22	0,092
5425-16-08	12	1/2"	3/4-16	M16x1.5	38	32	19	22	0,095
5425-18-08	12	1/2"	3/4-16	M18x1.5	41	32	19	24	0,114
5425-18-10	16	5/8"	7/8-14	M18x1.5	42	36	22	24	0,174
5425-22-10	16	5/8"	7/8-14	M22x1.5	43	36	22	27	0,175
5425-22-12	20	3/4"	1.1/16-12	M22x1.5	47.5	42	27	27	0,295
5425-27-12	20	3/4"	1.1/16-12	M27x2	52	42	27	32	0,304
5425-27-16	25	1"	1.5/16-12	M27x2	53	46	33	32	0,490
5425-33-16	25	1"	1.5/16-12	M33x2	54	46	33	41	0,530
5425-42-20	30	1.1/4"	1.5/8-12	M42x2	60	52	41	50	0,772
5425-48-24	38	1.1/2"	1.7/8-12	M48x2	67	59	50	55	1,069

1903

Male Connector JIC/BSPT

Part number	Dimensions								Weight kg/unit
	Ø								
	tube mm	tube inch	F	F1	L	L2	L3	CH1	
1903-02-04	6	1/4"	7/16-20	1/8-28 BSPT	30	14	10	12	0,014
1903-02-05	8	5/16"	1/2-20	1/8-28 BSPT	31	14	10	14	0,017
1903-04-04	6	1/4"	7/16-20	1/4-19 BSPT	36	14	14.5	14	0,025
1903-04-05	8	5/16"	1/2-20	1/4-19 BSPT	36	14	14.5	14	0,025
1903-04-06	10	3/8"	9/16-18	1/4-19 BSPT	36	14	14.5	17	0,030
1903-06-06	10	3/8"	9/16-18	3/8-19 BSPT	36	14	14.5	19	0,027
1903-06-08	12	1/2"	3/4-16	3/8-19 BSPT	37.5	17	14.5	22	0,045
1903-06-10	14-16	5/8"	7/8-14	3/8-19 BSPT	43	19	14.5	24	0,063
1903-08-08	12	1/2"	3/4-16	1/2-14 BSPT	43.5	17	19	22	0,074
1903-08-10	14-16	5/8"	7/8-14	1/2-14 BSPT	48	19	19	24	0,077
1903-08-12	20	3/4"	1.1/16-12	1/2-14 BSPT	49	22	19	30	0,100
1903-12-10	14-16	5/8"	7/8-14	3/4-14 BSPT	49.5	19	19	27	0,120
1903-12-12	20	3/4"	1.1/16-12	3/4-14 BSPT	52.5	22	19	30	0,120
1903-12-16	25	1"	1.5/16-12	3/4-14 BSPT	53	23	19	36	0,150
1903-16-12	20	3/4"	1.1/16-12	1-11 BSPT	56	22	24	36	0,175
1903-16-16	25	1"	1.5/16-12	1-11 BSPT	58.5	23	24	36	0,190
1903-20-20	32	1.1/4"	1.5/8-12	1.1/4-11 BSPT	60.5	24	24.5	46	0,315
1903-24-24	38	1.1/2"	1.7/8-12	1.1/2-11 BSPT	66	27.5	25.5	50	0,430

90° Male stud elbows JIC-BSPT

SDE

Part number	Dimensions							Weight kg/unit
	Ø							
	tube mm	tube inch	F	F1	L	L1	CH1	
5165-02-04	6	1/4"	7/16-20	1/8-28 BSPT	23	24	14	0,02
5165-02-05	8	5/16"	1/2-20	1/8-28 BSPT	23.5	24	14	0,029
5165-04-04	6	1/4"	7/16-20	1/4-19 BSPT	27.5	23	14	0,042
5165-04-05	8	5/16"	1/2-20	1/4-19 BSPT	27.5	24	14	0,042
5165-04-06	10	3/8"	9/16-18	1/4-19 BSPT	27.5	27	14	0,045
5165-06-06	10	3/8"	9/16-18	3/8-19 BSPT	32	29	19	0,076
5165-06-08	12	1/2"	3/4-16	3/8-19 BSPT	32	31	19	0,086
5165-08-06	10	3/8"	9/16-18	1/2-14 BSPT	36	31.5	22	0,117
5165-08-08	12	1/2"	3/4-16	1/2-14 BSPT	36	33.5	22	0,125
5165-08-10	14-16	5/8"	7/8-14	1/2-14 BSPT	36	36	22	0,129
5165-12-12	18-20	3/4"	1.1/16-12	3/4-14 BSPT	42.5	42	27	0,198
5165-16-16	25	1"	1.5/16-12	1-11 BSPT	50	46	33	0,328

5265

45° Male stud elbows
JIC-BSPT

SDE45

Part number	Dimensions							Weight kg/unit
	Ø							
	tube mm	tube inch	F	F1	L	L1	CH1	
5265-02-04	6	1/4"	7/16-20	1/8-28 BSPT	16.5	18.5	12	0,02
5265-02-05	8	5/16"	1/2-20	1/8-28 BSPT	16.5	19.5	14	0,025
5265-04-04	6	1/4"	7/16-20	1/4-19 BSPT	22	21	14	0,03
5265-04-05	8	5/16"	1/2-20	1/4-19 BSPT	22	21	14	0,03
5265-04-06	10	3/8"	9/16-18	1/4-19 BSPT	22	21	14	0,027
5265-06-06	10	3/8"	9/16-18	3/8-19 BSPT	24	22	19	0,052
5265-06-08	12	1/2"	3/4-16	3/8-19 BSPT	24	25	19	0,06
5265-08-08	12	1/2"	3/4-16	1/2-14 BSPT	29.5	25	22	0,092
5265-08-10	14-16	5/8"	7/8-14	1/2-14 BSPT	29.5	28	22	0,092
5265-12-12	18-20	3/4"	1.1/16-12	3/4-14 BSPT	30.5	32.5	27	0,15
5265-16-16	25	1"	1.5/16-12	1-11 BSPT	37.5	37	33	0,24

BSPT Run Tee

SDRT

Part number	Dimensions							Weight kg/unit
	Ø							
	tube mm	tube inch	F	F1	L	L1	CH1	
5275-02-04	6	1/4"	7/16-20	1/8-28 BSPT	19.5	22	12	0,03
5275-02-05	8	5/16"	1/2-20	1/8-28 BSPT	23.5	24	14	0,039
5275-04-04	6	1/4"	7/16-20	1/4-19 BSPT	27.5	23	14	0,052
5275-04-05	8	5/16"	1/2-20	1/4-19 BSPT	27.5	24	14	0,053
5275-04-06	10	3/8"	9/16-18	1/4-19 BSPT	27.5	27	14	0,055
5275-04-08	12	1/2"	3/4-16	1/4-19 BSPT	29.5	31	19	0,066
5275-06-06	10	3/8"	9/16-18	3/8-19 BSPT	32	29	19	0,077
5275-06-08	12	1/2"	3/4-16	3/8-19 BSPT	32	31	19	0,111
5275-06-10	14-16	5/8"	7/8-14	3/8-19 BSPT	34	36	22	0,138
5275-08-08	12	1/2"	3/4-16	1/2-14 BSPT	36	33.5	22	0.163
5275-08-10	14-16	5/8"	7/8-14	1/2-14 BSPT	36	36	22	0,169
5275-08-12	18-20	3/4"	1.1/16-12	1/2-14 BSPT	39	42	27	0,211
5275-12-10	14-16	5/8"	7/8-14	3/4-14 BSPT	42.5	39	27	0,245
5275-12-12	18-20	3/4"	1.1/16-12	3/4-14 BSPT	42.5	42	27	0,267
5275-12-16	25	1"	1.5/16-12	3/4-14 BSPT	46	46	33	0,311
5275-16-12	18-20	3/4"	1.1/16-12	1-11 BSPT	50	44	33	0,36
5275-16-16	25	1"	1.5/16-12	1-11 BSPT	50	46	33	0,407
5275-16-20	30-32	1.1/4"	1.5/8-12	1-11 BSPT	55	52	41	0,522
5275-20-20	30-32	1.1/4"	1.5/8-12	1.1/4-11 BSPT	60.5	52	41	0,681
5275-24-24	38	1.1/2"	1.7/8-12	1.1/2-11 BSPT	67	59	50	0,905

5280

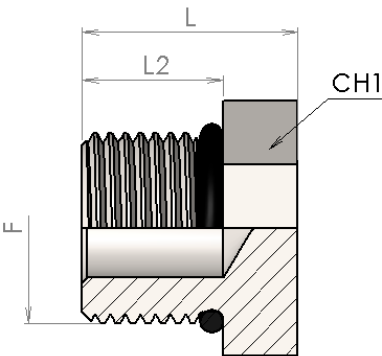
BSPT Branch Tee

SDBT

Part number	Dimensions							Weight kg/unit
	Ø							
	tube mm	tube inch	F	F1	L	L1	CH1	
5280-02-04	6	1/4"	7/16-20	1/8-28 BSPT	19.5	22	12	0,03
5280-02-05	8	5/16"	1/2-20	1/8-28 BSPT	23.5	24	14	0,039
5280-04-04	6	1/4"	7/16-20	1/4-19 BSPT	27.5	23	14	0,052
5280-04-06	10	3/8"	9/16-18	1/4-19 BSPT	27.5	27	14	0,055
5280-06-06	10	3/8"	9/16-18	3/8-19 BSPT	32	29	19	0,077
5280-06-08	12	1/2"	3/4-16	3/8-19 BSPT	32	31	19	0,111
5280-08-08	12	1/2"	3/4-16	1/2-14 BSPT	36	33.5	22	0,163
5280-08-10	14-16	5/8"	7/8-14	1/2-14 BSPT	36	36	22	0,169
5280-12-12	18-20	3/4"	1.1/16-12	3/4-14 BSPT	42.5	42	27	0,267
5280-16-16	25	1"	1.5/16-12	1-11 BSPT	50	46	33	0,407

UNF male plug
(ISO 11926-1)

PL



Part number	Dimensions				Weight kg/unit
	F	L	L2	CH1	
5040-04	7/16-20	17	9	14	0,015
5040-05	1/2-20	17	9	14	0,017
5040-06	9/16-18	18.5	10	17	0,025
5040-08	3/4-16	20.5	11	22	0,045
5040-10	7/8-14	23.5	13	27	0,075
5040-12	1 1/16-12	28	15	32	0,125
5040-16	1 5/16-12	28.5	15	38	0,175

J605

**JIC Male plug
(ISO 8434-2)**

PL

Part number	Dimensions						Weight kg/unit
	Ø						
	tube mm	tube inch	F	L	L2	CH1	
J605-04	6	1/4"	7/16-20	20.5	14	12	0,01
J605-05	8	5/16"	1/2-20	20.5	14	14	0,014
J605-06	10	3/8"	9/16-18	21.5	14	17	0,02
J605-08	12	1/2"	3/4-16	24	17	22	0,04
J605-10	14-16	5/8"	7/8-14	28	19	24	0,06
J605-12	18-20	3/4"	1 1/16-12	32.5	22	30	0,095
J605-16	25	1"	1 5/16-12	34	23	36	0,1
J605-20	30-32	1.1/4"	1 5/8-12	37	24	46	0,27
J605-24	38	1.1/2"	1 7/8-12	42	27.5	50	0,36
J605-32	50	2"	2 1/2-12	55	34	65	0,47

JIC Female swivel plug
(ISO 8434-2)

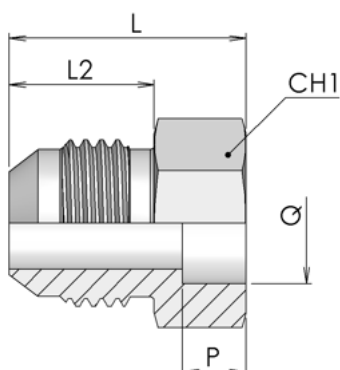
PL

Part number	Dimensions						Weight kg/unit
	Ø						
	tube mm	tube inch	F	L	L1	CH3	
J608-04	6	1/4"	7/16-20	18.5	9.5	14	0,014
J608-05	8	5/16"	1/2-20	19.5	10	17	0,019
J608-06	10	3/8"	9/16-18	20.5	11.5	19	0,031
J608-08	12	1/2"	3/4-16	24	13.5	22	0,045
J608-10	16	5/8"	7/8-14	27.5	14,5	27	0,075
J608-12	20	3/4"	1 1/16-12	29.5	16	32	0,114
J608-16	32	1.1/4"	1 5/16-12	33	17	41	0,272
J608-20	38	1.1/2"	1 5/8-12	36.5	20.5	50	0,553
J608-24	50	2"	1 7/8-12	42	23	60	0,93

MJ

JIC braze-on straight connector (ISO 8434-2)

BRS



Part number	Dimensions							Weight kg/unit
	Ø							
	tube mm	tube inch	F	P	L	L2	CH1	
MJ-05-10	8	5/16"	1/2-20	8.5	26	14	17	0,020
MJ-06-10	10	3/8"	9/16-18	8.5	27.5	14	19	0,034
MJ-06-12	10	3/8"	9/16-18	8.5	27.5	14	19	0,030
MJ-08-12	12	1/2"	3/4-16	8.5	29	17	22	0,047
MJ-10-16	14-16	5/8"	7/8-14	9	31.5	19	24	0,058
MJ-12-18	18-20	3/4"	1 1/16-12	12.5	40	22	30	0,118
MJ-12-20	18-20	3/4"	1 1/16-12	12.5	40	22	30	0,116
MJ-16-25	25	1"	1 5/16-12	14	42	23	36	0,161

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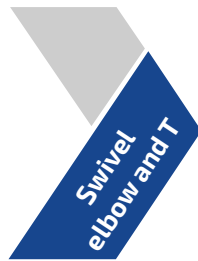
DIN

	7400		7410		
	Nuts 6		Cutting Rings 7		
	7430	7440	7435	7450	
	Stud Straight 8-12	Stud connector for ports with elastomeric sealing (type E) and parallel threads 13-15	Stud Straight 16-17	Stud Straight 18-20	
	7460		7500	7510	
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7380

Swivel with two
O-ring straight

39



7330

Swivel elbow with
O-ring

40

7335

Swivel elbow 45°
with O-ring

41

7350

Swivel elbow with
O-ring Run Tee

42

7340

Swivel elbow with
O-ring Branch Tee

43



7600

Stud Adjustable
elbow

44-46

7605

Stud Adjustable
elbow

47

7630

Stud Adjustable
45° elbow

48

7635

Stud Adjustable
45° elbow

49

7610

Stud Adjustable Run
Tee

50-51

7615

Stud Adjustable Run
Tee

52

7620

Stud Adjustable
Branch Tee

53-54

7625

Stud Adjustable
Branch Tee

55

7240

Stud straight

56-57



7250

Straight

58-59



7030

Straight Gauge
couplings

60

7035

Swivel with O-ring
Gauge Coupling

61



7260

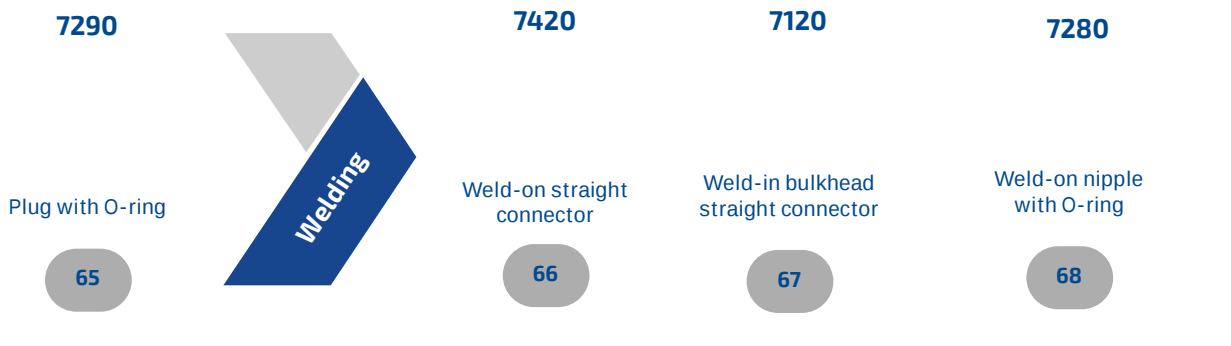
Male Plug
Elastomeric sealing

62-63

7270

Male Plug

64



7400

Nut (ISO 8434-1)
N

Type	W.P. bar	Part number	Dimensions				Weight kg/unit
			Thread			Ø	
			F	CH1	L1	tube mm	
LL	100	7400-04LLNI	M 8x1	10	11.0	4	0,004
		7400-06LLNI	M 10x1	12	11.5	6	0,006
		7400-08LLNI	M 12x1	14	12.0	8	0,007
L	315	7400-06LNI	M 12x1,5	14	14.5	6	0,010
		7400-08LNI	M 14x1,5	17	14.5	8	0,015
		7400-10LNI	M 16x1,5	19	15.5	10	0,018
		7400-12LNI	M 18x1,5	22	15.5	12	0,025
		7400-15LNI	M 22x1,5	27	17.0	15	0,042
		7400-18LNI	M 26x1,5	32	18.0	18	0,062
L	160	7400-22LNI	M 30x2	36	20.0	22	0,082
		7400-28LNI	M 36x2	41	21.0	28	0,089
		7400-35LNI	M 45x2	50	24.0	35	0,137
		7400-42LNI	M 52x2	60	24.0	42	0,216
S	630	7400-06SNI	M 14x1,5	17	16.5	6	0,017
		7400-08SNI	M 16x1,5	19	16.5	8	0,020
		7400-10SNI	M 18x1,5	22	17.5	10	0,031
		7400-12SNI	M 20x1,5	24	17.5	12	0,034
		7400-14SNI	M 22x1,5	27	20.5	14	0,053
S	400	7400-16SNI	M 24x1,5	30	20.5	16	0,066
		7400-20SNI	M 30x2	36	24.0	20	0,102
		7400-25SNI	M 36x2	46	27.0	25	0,202
S	250	7400-30SNI	M 42x2	50	29.0	30	0,219
		7400-38SNI	M 52x2	60	32.5	38	0,339

Cutting ring (ISO 8434-1)
CR

Type	W.P. bar	Part number	Dimensions			Weight kg/unit
					Ø	
			D	L1	tube mm	
LL	100	7410-04LL	6	6.0	4	0,0003
		7410-06LL	8	7.0	6	0,0008
		7410-08LL	10	7.0	8	0,0010
LS	630	7410-06LS	10	9.5	6	0,0017
		7410-08LS	12	9.5	8	0,0022
		7410-10LS	14	10.0	10	0,0031
		7410-12LS	16	10.0	12	0,0035
L	250	7410-15L	19	10.0	15	0,0045
L	160	7410-18L	23	10.0	18	0,0055
		7410-22L	27	10.5	22	0,0077
L	100	7410-28L	33	11.0	28	0,0094
		7410-35L	41	13.0	35	0,0200
		7410-42L	48	13.0	42	0,0230
S	630	7410-14S	19	10.0	14	0,0390
S	400	7410-16S	21	10.5	16	0,0560
		7410-20S	26	12.0	20	0,0154
		7410-25S	32	12.0	25	0,0133
S	250	7410-30S	36	13.0	30	0,0193
		7410-38S	44	13.0	38	0,2250

7430

Male stud connector
BSPP thread
(Form B ISO 1179-4)
SDS

Type	W.P. bar	Part number	Dimensions						Weight kg/unit	
										Ø
			CH1	CH2	F	L1	L2	L3	tube mm	
L	315	7430-06LR-1NI	14	14	G 1/8	23.0	8.5	8	6	0,014
		7430-06LR04-1NI	19	14	G 1/4	24.5	10	12	6	0,024
		7430-06LR06-1NI	22	14	G 3/8	26.0	11.5	12	6	0,040
		7430-08LR02-1NI	14	17	G 1/8	24.5	9.5	8	8	0,027
		7430-08LR-1NI	19	17	G 1/4	25.0	10	12	8	0,027
		7430-08LR06-1NI	22	17	G 3/8	26.5	11.5	12	8	0,044
		7430-08LR08-1NI	27	17	G 1/2	27.0	12	14	8	0,074
		7430-10LR-1NI	19	19	G 1/4	26.0	11	12	10	0,030
		7430-10LR06-1NI	22	19	G 3/8	27.5	12.5	12	10	0,045
		7430-10LR08-1NI	27	19	G 1/2	28.0	13	14	10	0,072
		7430-12LR04-1NI	19	22	G 1/4	26.5	12	12	12	0,032
		7430-12LR-1NI	22	22	G 3/8	27.0	12.5	12	12	0,042
		7430-12LR08-1NI	27	22	G 1/2	27.5	13	14	12	0,071
		7430-15LR06-1NI	24	27	G 3/8	28.5	13.5	12	15	0,052
		7430-15LR-1NI	27	27	G 1/2	29.0	14	14	15	0,071
		7430-15LR12-1NI	32	27	G 3/4	30.0	15	16	15	0,117
		7430-18LR-1NI	27	32	G 1/2	31.0	14.5	14	18	0,070
		7430-18LR12-1NI	32	32	G 3/4	31.0	14.5	16	18	0,110
L	160	7430-22LR08-1NI	32	36	G 1/2	33.0	16.5	14	22	0,088
		7430-22LR-1NI	32	36	G 3/4	33.0	16.5	16	22	0,103
		7430-28LR12-1NI	41	41	G 3/4	34.0	17.5	16	28	0,143
		7430-28LR-1NI	41	41	G 1	34.0	17.5	18	28	0,169
		7430-35LR-1NI	50	50	G 1 1/4	39.0	17.5	20	35	0,274
		7430-42LR-1NI	55	60	G 1 1/2	42.0	19	22	42	0,349

Male stud connector
BSPP thread
(Form B ISO 1179-4)
SDS

Type	W.P. bar	Part number	Dimensions						Weight kg/unit	
										Ø
			CH1	CH2	F	L1	L2	L3	tube mm	
S	630	7430-06SR-1NI	19	17	G 1/4	28.0	13	12	6	0,035
		7430-06SR08-1NI	27	17	G 1/2	33.0	18	14	6	0,067
		7430-08SR-1NI	19	19	G 1/4	30.0	15	12	8	0,041
		7430-08SR06-1NI	22	19	G 3/8	30.5	15.5	12	8	0,055
		7430-10SR04-1NI	19	22	G 1/4	30.5	14.5	12	10	0,042
		7430-10SR-1NI	22	22	G 3/8	31.0	15	12	10	0,056
		7430-10SR08-1NI	27	22	G 1/2	33.5	17.5	14	10	0,078
		7430-12SR04-1NI	22	24	G 1/4	32.5	16.5	12	12	0,057
		7430-12SR-1NI	22	24	G 3/8	33.0	17	12	12	0,062
		7430-12SR08-1NI	27	24	G 1/2	33.5	17.5	14	12	0,097
		7430-14SR06-1NI	24	27	G 3/8	36.5	18.5	12	14	0,075
		7430-14SR-1NI	27	27	G 1/2	37.0	19	14	14	0,098
S	400	7430-16SR06-1NI	27	30	G 3/8	36.5	18	12	16	0,084
		7430-16SR-1NI	27	30	G 1/2	37.0	18.5	14	16	0,091
		7430-16SR12-1NI	32	30	G 3/4	39.0	20.5	16	16	0,155
		7430-20SR08-1NI	32	36	G 1/2	42.0	20.5	14	20	0,133
		7430-20SR-1NI	32	36	G 3/4	42.0	20.5	16	20	0,151
		7430-25SR12-1NI	41	46	G 3/4	47.0	23	16	25	0,241
		7430-25SR-1NI	41	46	G 1	47.0	23	18	25	0,266
		7430-30SR16-1NI	46	50	G 1	50.0	23.5	18	30	0,328
S	315	7430-30SR-1NI	50	50	G 1 1/4	50.0	23.5	20	30	0,417
		7430-38SR20-1NI	55	60	G 1 1/4	57.0	26	20	38	0,550
		7430-38SR-1NI	55	60	G 1 1/2	57.0	26	22	38	0,566

7430

Male stud connector
Metric fine thread
(Form B ISO 9974-3)
SDS

Type	W.P. bar	Part number	Dimensions						Weight kg/unit	
										Ø
			CH1	CH2	F	L1	L2	L3	tube mm	
L	315	7430-06LM-1NI	14	14	M 10x1	23.0	8.5	8	6	0,014
		7430-08LM-1NI	17	17	M 12x1,5	25.0	10	12	8	0,022
		7430-08LM14-1NI	19	17	M 14x1,5	26.0	10	12	8	0,029
		7430-08LM18-1NI	24	17	M 18x1,5	26.5	11.5	12	8	0,052
		7430-10LM-1NI	19	19	M 14x1,5	26.0	11	12	10	0,030
		7430-10LM16-1NI	22	19	M 16x1,5	27.5	12.5	12	10	0,042
		7430-10LM18-1NI	24	19	M 18x1,5	27.5	12.5	12	10	0,052
		7430-10LM22-1NI	27	19	M 22x1,5	29.0	14	14	10	0,081
		7430-12LM-1NI	22	22	M 16x1,5	27.0	12.5	12	12	0,040
		7430-12LM18-1NI	24	22	M 18x1,5	27.0	12.5	12	12	0,045
		7430-12LM22-1NI	27	22	M 22x1,5	28.5	14	14	12	0,078
		7430-15LM-1NI	24	27	M 18x1,5	29.0	12	13.5	15	0,051
		7430-15LM22-1NI	27	27	M 22x1,5	30.0	15	14	15	0,078
		7430-18LM-1NI	27	32	M 22x1,5	31.0	14.5	14	18	0,077
		7430-18LM18-1NI	27	32	M 18x1,5	30.5	14	12	18	0,066
L	160	7430-22LM-1NI	32	36	M 26x1,5	33.0	16.5	16	22	0,101
		7430-28LM-1NI	41	41	M 33x2	34.0	17.5	18	28	0,167
		7430-35LM-1NI	50	50	M 42x2	39.0	17.5	20	35	0,278
		7430-42LM-1NI	55	60	M 48x2	42.0	19	22	42	0,354
S	630	7430-06SM-1NI	17	17	M 12x1,5	28.0	13	12	6	0,031
		7430-08SM-1NI	19	19	M 14x1,5	30.0	15	12	8	0,043
		7430-10SM-1NI	22	22	M 16x1,5	31.0	15	12	10	0,054
		7430-12SM-1NI	24	24	M 18x1,5	33.0	17	12	12	0,071
		7430-14SM-1NI	27	27	M 20x1,5	37.0	19	14	14	0,092
S	400	7430-16SM-1NI	27	30	M 22x1,5	37.0	18.5	14	16	0,097
		7430-20SM-1NI	32	36	M 27x2	42.0	20.5	16	20	0,153
		7430-25SM-1NI	41	46	M 33x2	47.0	23	18	25	0,266
		7430-30SM-1NI	50	50	M 42x2	50.0	23.5	20	30	0,428
S	315	7430-38SM-1NI	55	60	M 48x2	57.0	26	22	38	0,573

7430

Male stud connector
Metric fine thread
(Form F ISO 6149-2/3)

Type	W.P. bar	Part number	Dimensions						Weight kg/unit	
								Ø		
			CH1	CH2	F	L1	L2	L3	tube mm	
L	315	7430-06LI-1NI	14	14	M 10x1	23.0	8.5	8	6	0,015
		7430-08LI-1NI	17	17	M 12x1,5	25.0	10	12	8	0,022
		7430-10LI-1NI	19	19	M 14x1,5	26.0	11	12	10	0,029
		7430-12LI-1NI	22	22	M 16x1,5	27.0	12.5	12	12	0,040
		7430-15LI-1NI	24	27	M 18x1,5	29.0	14	14	15	0,052
		7430-18LI-1NI	27	32	M 22x1,5	31.0	14.5	14	18	0,077
L	160	7430-22LI-1NI	32	36	M 27x2	33.0	16.5	16	22	0,105
		7430-28LI-1NI	41	41	M 33x2	34.0	17.5	18	28	0,164
		7430-35LI-1NI	50	50	M 42x2	39.0	17.5	20	35	0,265
		7430-42LI-1NI	55	60	M 48x2	42.0	19	22	42	0,330
S	630	7430-06SI-1NI	17	17	M 12x1,5	28.0	13	12	6	0,029
		7430-08SI-1NI	19	19	M 14x1,5	30.0	15	12	8	0,041
		7430-10SI-1NI	22	22	M 16x1,5	31.0	15	12	10	0,055
		7430-12SI-1NI	24	24	M 18x1,5	33.0	17	12	12	0,075
S	400	7430-16SI-1NI	27	30	M 22x1,5	37.0	18.5	14	16	0,099
		7430-20SI-1NI	32	36	M 27x2	42.0	20.5	16	20	0,164
		7430-25SI-1NI	41	46	M 33x2	47.0	23	18	25	0,269
S	250	7430-30SI-1NI	50	50	M 42x2	50.0	23.5	20	30	0,493
		7430-38SI-1NI	55	60	M 48x2	57.0	26	22	38	0,571

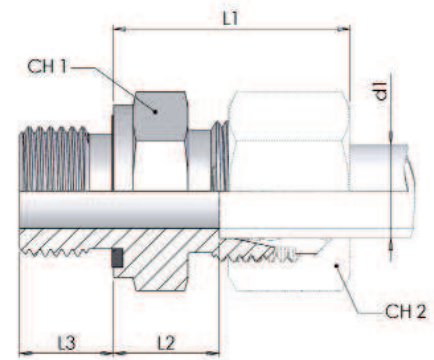
7430

Male stud connector UNF thread (ISO 11926-2/3)

Type	W.P. bar	Part number	Dimensions						Weight kg/unit	
								Ø		
			CH1	CH2	F	L1	L2	L3	tube mm	
L	315	7430-08LU04-1NI	14	17	7/16-20 UNF	25.0	10	9	8	0,021
		7430-10LU04-1NI	17	19	7/16-20 UNF	26.0	11	9	10	0,024
		7430-12LU06-1NI	19	22	9/16-18 UNF	25.5	11	10	12	0,032
		7430-12LU08-1NI	22	22	3/4-16 UNF	27.5	13	11	12	0,045
L	400	7430-12LU10-1NI	27	22	7/8-14 UNF	29.3	12.8	12.7	12	0,07
L	315	7430-15LU08-1NI	27	27	3/4-16 UNF	29.0	14	11	15	0,054
		7430-15LU10-1NI	27	27	7/8-14 UNF	29.0	14	11	15	0,075
		7430-18LU08-1NI	27	32	3/4-16 UNF	31.0	14.5	11	18	0,066
		7430-18LU10-1NI	27	32	7/8-14 UNF	31.5	15	12.5	18	0,074
L	160	7430-22LU10-1NI	32	36	7/8-14 UNF	33.5	17	12.5	22	0,098
		7430-22LU12-1NI	32	36	1 1/16-12 UN	33.0	16.5	15	22	0,102
L	250	7430-22LU16-1NI	41	36	1 5/16-12 UN	34.0	16.5	15	22	0,175
L	160	7430-28LU12-1NI	41	41	1 1/16-12 UN	34.0	17.5	15	28	0,143
		7430-28LU16-1NI	41	41	1 5/16-12 UN	34.0	17.5	15	28	0,162
		7430-35LU16-1NI	46	50	1 5/16-12 UN	39.0	17.5	15	35	0,211
		7430-35LU20-1NI	50	50	1 5/8-12 UN	39.0	17.5	15	35	0,249
		7430-42LU20-1NI	55	60	1 5/8-12 UN	42.0	19	15	42	0,308
S	630	7430-08SU04-1NI	17	19	7/16-20 UNF	29.0	14.8	9.2	8	0,035
		7430-10SU06-1NI	19	22	9/16-18 UNF	31.0	15	10	10	0,041
		7430-12SU08-1NI	22	24	3/4-16 UNF	33.5	17.5	11	12	0,074
S	400	7430-16SU08-1NI	27	30	3/4-16 UNF	34.0	15.5	11	16	0,081
		7430-16SU10-1NI	27	30	7/8-14 UNF	37.5	19	12.5	16	0,087
		7430-20SU08-1NI	32	36	3/4-16 UNF	42.0	20.5	11	20	0,127
		7430-20SU10-1NI	32	36	7/8-14 UNF	42.5	21	12.5	20	0,138
		7430-20SU12-1NI	32	36	1 1/16-12 UN	42.0	20.5	15	20	0,150
		7430-25SU12-1NI	41	46	1 1/16-12 UN	47.0	23	15	25	0,24
		7430-25SU16-1NI	41	46	1 5/16-12 UN	47.0	23	15	25	0,257
		7430-30SU16-1NI	46	50	1 5/16-12 UN	50.0	23.5	15	30	0,31
S	250	7430-30SU20-1NI	50	20	1 5/8-12 UN	50.0	23.5	15	30	0,381

7440

Male stud connector with Elastomeric Sealing (Form E ISO 1179-2)



Type	W.P. bar	Part number	Dimensions						Weight kg/unit	
								Ø		
			CH1	CH2	F	L1	L2	L3	tube mm	
L	315	7440-06LR-1NI	14	14	G 1/8	23.0	8.5	8	6	0,013
		7440-06LR04-1NI	19	14	G 1/4	24.5	10	12	6	0,027
		7440-06LR06-1NI	22	14	G 3/8	26.0	11.5	12	6	0,038
		7440-08LR02-1NI	14	17	G 1/8	24.5	9.5	8	8	0,015
		7440-08LR-1NI	19	17	G 1/4	25.0	10	12	8	0,027
		7440-08LR06-1NI	22	17	G 3/8	26.5	11.5	12	8	0,044
		7440-08LR08-1NI	27	17	G 1/2	27.0	12	14	8	0,072
		7440-10LR02-1NI	17	19	G 1/8	25.5	110.5	8	10	0,020
		7440-10LR-1NI	19	19	G 1/4	26.0	11	12	10	0,029
		7440-10LR06-1NI	22	19	G 3/8	27.5	12.5	12	10	0,042
		7440-10LR08-1NI	27	19	G 1/2	28.0	13	14	10	0,063
		7440-12LR04-1NI	19	22	G 1/4	26.5	12	12	12	0,032
		7440-12LR-1NI	22	22	G 3/8	27.0	12.5	12	12	0,042
		7440-12LR08-1NI	27	22	G 1/2	27.5	13	14	12	0,067
		7440-15LR06-1NI	24	27	G 3/8	28.5	13.5	12	15	0,051
		7440-15LR-1NI	27	27	G 1/2	29.0	14	14	15	0,071
		7440-15LR12-1NI	32	27	G 3/4	30.0	15	16	15	0,117
		7440-18LR06-1NI	27	32	G 3/8	30.5	14	12	18	0,068
		7440-18LR-1NI	27	32	G 1/2	31.0	14.5	14	18	0,070
		7440-18LR12-1NI	32	32	G 3/4	31.0	14.5	16	18	0,109
L	160	7440-22LR08-1NI	32	36	G 1/2	33.0	16.5	14	22	0,087
		7440-22LR-1NI	32	36	G 3/4	33.0	16.5	16	22	0,102
		7440-22LR16-1NI	41	36	G 1	34.0	17.5	18	22	0,184
		7440-28LR12-1NI	41	41	G 3/4	34.0	17.5	16	28	0,146
		7440-28LR-1NI	41	41	G 1	34.0	17.5	18	28	0,165
L	250	7440-28LR20-1NI	50	46	G 1 1/4	34.0	18.5	20	28	0,255
L	160	7440-35LR16-1NI	46	50	G 1	39.0	17.5	18	35	0,238
		7440-35LR-1NI	50	50	G 1 1/4	39.0	17.5	20	35	0,271
		7440-42LR20-1NI	55	60	G 1 1/4	42.0	19	20	42	0,336

7440

Male stud connector with Elastomeric Sealing (Form E ISO 1179-2)

Type	W.P. bar	Part number	Dimensions							Weight kg/unit
									Ø	
			CH1	CH2	F	L1	L2	L3	tube mm	
L	160	7440-42LR-1NI	55	60	G 1 1/2	42.0	19	22	42	0,500
S	630	7440-06SR-1NI	19	17	G 1/4	28.0	13	12	6	0,035
		7440-08SR-1NI	19	19	G 1/4	30.0	15	12	8	0,041
		7440-08SR06-1NI	22	19	G 3/8	30.5	15.5	12	8	0,057
		7440-10SR04-1NI	19	22	G 1/4	30.5	14.5	12	10	0,042
		7440-10SR-1NI	22	22	G 3/8	31.0	15	12	10	0,055
		7440-10SR08-1NI	27	22	G 1/2	33.5	17.5	14	10	0,089
		7440-12SR04-1NI	22	24	G 1/4	32.5	16.5	12	12	0,056
		7440-12SR-1NI	22	24	G 3/8	33.0	17	12	12	0,062
		7440-12SR08-1NI	27	24	G 1/2	33.5	17.5	14	12	0,091
		7440-14SR06-1NI	24	27	G 3/8	36.5	18.5	12	14	0,083
		7440-14SR-1NI	27	27	G 1/2	37.0	19	14	14	0,096
S	400	7440-16SR06-1NI	27	30	G 3/8	36.5	18	12	16	0,081
		7440-16SR-1NI	27	30	G 1/2	37.0	18.5	14	16	0,092
		7440-16SR12-1NI	32	30	G 3/4	39.0	20.5	16	16	0,138
		7440-20SR08-1NI	32	36	G 1/2	42.0	20.5	14	20	0,135
		7440-20SR-1NI	32	36	G 3/4	42.0	20.5	16	20	0,149
		7440-20SR16-1NI	41	36	G 1	42.0	22.5	18	20	0,250
		7440-25SR12-1NI	41	46	G 3/4	47.0	23	16	25	0,237
		7440-25SR-1NI	41	46	G 1	44.0	22.5	18	25	0,263
		7440-25SR20-1NI	50	46	G 1 1/4	47.0	23	20	25	0,265
		7440-30SR16-1NI	46	520	G 1	50.2	15.5	18	30	0,330
		7440-30SR-1NI	50	50	G 1 1/4	50.0	23.5	20	30	0,419
		7440-30SR24-1NI	55	50	G 1 1/2	53.0	26.5	22	30	0,64
L	400	7440-38SR16-1NI	55	60	G 1	57.0	26	18	38	0,45
S	315	7440-38SR20-1NI	55	60	G 1 1/4	57.0	26	20	38	0,555
		7440-38SR-1NI	55	60	G 1 1/2	57.0	26	22	38	0,559

Male stud connector with
Elastomeric Sealing
(Form E ISO 9974-2)
SDS

Type	W.P. bar	Part number	Dimensions						Weight kg/unit	
										Ø
			CH1	CH2	F	L1	L2	L3	tube mm	
L	315	7440-06LM-1NI	14	14	M 10x1	23.0	8.5	8	6	0,014
		7440-08LM-1NI	17	17	M 12x1,5	25.0	10	12	8	0,021
		7440-10LM-1NI	19	19	M 14x1,5	26.0	11	12	10	0,029
		7440-10LM16-1NI	22	19	M 16x1,5	27.5	12.5	12	10	0,042
		7440-10LM18-1NI	24	19	M 18x1,5	27.5	12.5	12	10	0,049
		7440-10LM22-1NI	27	19	M 22x1,5	29.0	14	14	10	0,080
		7440-12LM14-1NI	19	22	M 14x1,5	27.0	12.5	12	12	0,029
		7440-12LM-1NI	22	22	M 16x1,5	27.0	12.5	12	12	0,039
		7440-12LM18-1NI	24	22	M 18x1,5	27.0	12.5	12	12	0,044
		7440-12LM22-1NI	27	22	M 22x1,5	28.5	14	14	12	0,064
		7440-15LM16-1NI	24	27	M 16x1,5	28.0	13	12	15	0,048
		7440-15LM-1NI	24	27	M 18x1,5	2.0	13.5	12	15	0,051
		7440-15LM22-1NI	27	27	M 22x1,5	30.0	15	14	15	0,071
		7440-18LM-1NI	27	32	M 18x1,5	30.5	14	12	18	0,065
		7440-18LM18-1NI	27	32	M 22x1,5	31.0	14.5	14	18	0,074
L	160	7440-22LM22-1NI	32	36	M 22x1,5	33.0	16.5	14	22	0,090
		7440-22LM-1NI	32	36	M 26x1,5	33.0	16.5	16	22	0,101
		7440-28LM-1NI	41	41	M 33x2	34.0	17.5	18	28	0,164
		7440-35LM-1NI	50	50	M 42x2	39.0	17.5	20	35	0,273
		7440-42LM-1NI	55	60	M 48x2	42.0	19	22	42	0,346
S	630	7440-06SM-1NI	17	17	M 12x1,5	28.0	13	12	6	0,029
		7440-08SM-1NI	19	19	M 14x1,5	30.0	15	12	8	0,041
		7440-10SM-1NI	22	22	M 16x1,5	31.0	15	12	10	0,053
		7440-12SM-1NI	24	24	M 18x1,5	33.0	17	12	12	0,071
		7440-14SM-1NI	27	27	M 20x1,5	37.0	19	14	14	0,094
S	400	7440-16SM18-1NI	27	30	M 18x1,5	36.5	18	12	16	0,081
		7440-16SM-1NI	27	30	M 22x1,5	37.0	18.5	14	16	0,096
		7440-20SM-1NI	32	36	M 27x2	42.0	20.5	16	20	0,151
		7440-25SM-1NI	41	46	M 33x2	47.0	23	18	25	0,265
		7440-30SM-1NI	50	50	M 42x2	50.0	23.5	20	30	0,417
S	315	7440-38SM-1NI	55	60	M 48x2	57.0	26	22	38	0,564

7435

Male stud connector BSPP thread (ISO 8434-6)

Type	W.P. bar	Part number	Dimensions						Weight kg/unit	
								Ø		
			CH1	CH2	F	L1	L2	L3	tube mm	
L	315	7435-06LR-1NI	14	14	G 1/8	23.0	8.5	8	6	0,014
		7435-06LR04-1NI	19	14	G 1/4	25.0	9	11	6	0,025
		7435-06LR06-1NI	22	14	G 3/8	26.0	11.5	12	6	0,042
		7435-08LR-1NI	19	17	G 1/4	25.0	10	11	8	0,027
		7435-10LR-1NI	19	19	G 1/4	26.0	11	11	10	0,027
		7435-10LR06-1NI	22	19	G 3/8	27.0	12.5	12	10	0,043
		7435-10LR08-1NI	27	19	G 1/2	28.0	13	14	10	0,068
		7435-12LR04-1NI	19	22	G 1/4	27.0	12	11	12	0,031
		7435-12LR-1NI	22	22	G 3/8	27.0	12.5	12	12	0,046
		7435-12LR08-1NI	27	22	G 1/2	28.0	13	14	12	0,067
		7435-15LR06-1NI	24	27	G 3/8	29.0	13.5	12	15	0,051
		7435-15LR-1NI	27	27	G 1/2	29.0	14	14	15	0,077
		7435-15LR12-1NI	32	27	G 3/4	30.0	15	16	15	0,112
		7435-18LR-1NI	27	32	G 1/2	31.0	14.5	14	18	0,071
		7435-18LR12-1NI	32	32	G 3/4	30.0	14.5	16	18	0,106
L	160	7435-22LR08-1NI	32	36	G 1/2	33.0	16.5	14	22	0,088
		7435-22LR-1NI	32	36	G 3/4	33.0	16.5	16	22	0,102
		7435-22LR16-1NI	41	36	G 1	34.0	16.5	19	22	0,167
		7435-28LR-1NI	41	41	G 1	34.0	17.5	19	28	0,167
		7435-35LR-1NI	50	50	G 1 1/4	39.0	17.5	20	35	0,272

Male stud connector
BSPP thread
(ISO 8434-6)

Type	W.P. bar	Part number	Dimensions							Weight kg/unit
									Ø	
			CH1	CH2	F	L1	L2	L3	tube mm	
L	160	7435-42LR-1NI	55	60	G 1 1/2	42.0	19	22	42	0,345
S	630	7435-06SR-1NI	19	17	G 1/4	28.0	13	11	6	0,034
		7435-08SR-1NI	19	19	G 1/4	30.0	15	11	8	0,041
		7435-10SR-1NI	22	22	G 3/8	31.0	15	12	10	0,055
		7435-12SR-1NI	22	24	G 3/8	33.0	17	12	12	0,061
		7435-12SR08-1NI	27	24	G 1/2	34.0	17.5	14	12	0,092
		7435-14SR-1NI	27	27	G 1/2	37.0	19	14	14	0,094
S	400	7435-16SR-1NI	27	30	G 1/2	37.0	18.5	14	16	0,090
		7435-20SR-1NI	32	36	G 3/4	42.0	20.5	16	20	0,163
		7435-25SR-1NI	41	46	G 1	47.0	23	18	25	0,257
S	250	7435-30SR-1NI	50	50	G 1 1/4	50.0	23.5	20	30	0,403
		7435-38SR-1NI	55	60	G 1 1/2	57.0	26	22	38	0,555

7450

Male stud connector
BSPP tapered thread
(Form C DIN 3852-2)
SDS

Seal type: conical thread (ASME B1.20.1)

Type	W.P. bar	Part number	Dimensions							Weight kg/unit
			Thread						Ø	
			F	CH1	CH2	L1	L2	L3	tube mm	
LL	100	7450-04LLR-1NI	R 1/8 K	12	10	26.5	17	9	4	0,008
		7450-06LLR-1NI	R 1/8 K	12	12	26.5	15.5	9	6	0,009
		7450-08LLR-1NI	R 1/8 K	12	14	28.5	17.5	9	8	0,009
L	315	7450-06LR-1NI	R 1/8 K	12	14	30.0	16	9	6	0,012
		7450-06LR04-1NI	R 1/4 K	14	14	34.5	20	12	6	0,019
		7450-08LR-1NI	R 1/4 K	17	17	35.0	20	12	8	0,022
		7450-10LR-1NI	R 1/4 K	17	19	36.0	21	12	10	0,023
		7450-12LR04-1NI	R 1/4 K	19	22	36.5	22	12	12	0,028
		7450-12LR-1NI	R 3/8 K	19	22	36.5	22	12	12	0,033
		7450-12LR08-1NI	R 1/2 K	22	22	38.5	24	14	12	0,055
		7450-15LR-1NI	R 1/2 K	24	27	40.0	25	14	15	0,058
		7450-18LR-1NI	R 1/2 K	27	32	42.0	25.5	14	18	0,064
L	160	7450-22LR-1NI	R 3/4 K	32	36	46.0	29.5	16	22	0,096
		7450-28LR-1NI	R 1 K	41	41	49.0	32.5	18	28	0,156

7450

Male stud connector
Metric fine tapered thread
(Form C DIN 3852-1)
SDS

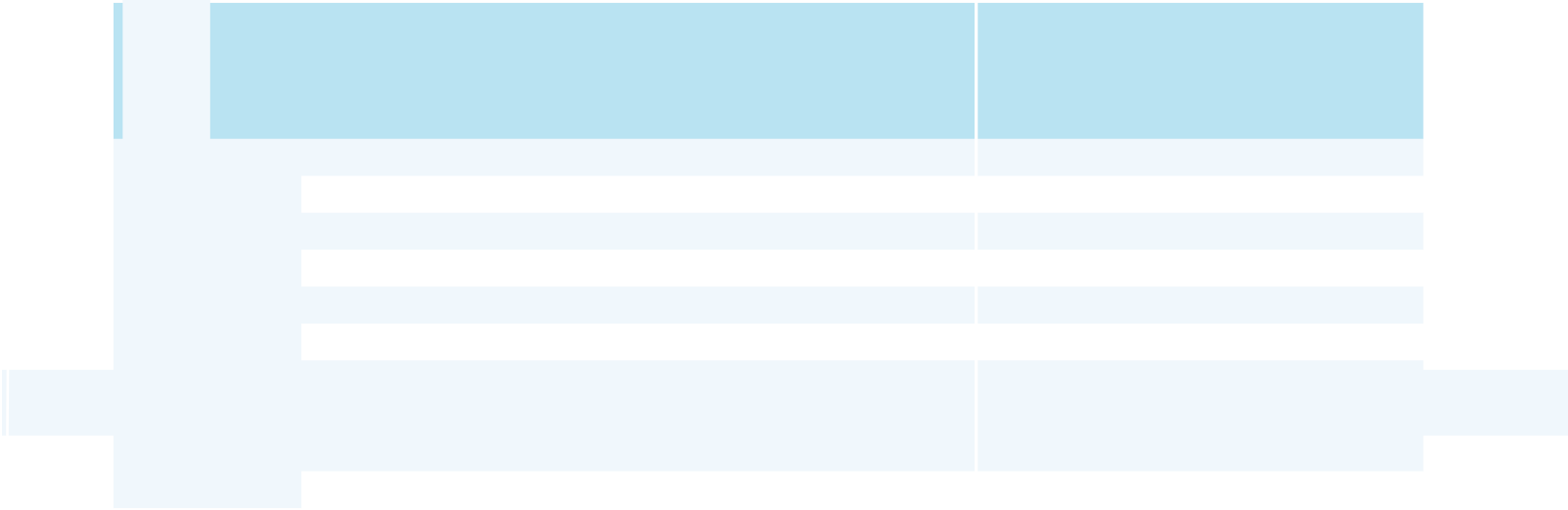
Seal type: conical thread (ASME B1.20.1)

Type	W.P. bar	Part number	Dimensions								Weight kg/unit
			Thread							Ø	
			F	M	CH1	CH2	L1	L2	L3	tube mm	
LL	100	7450-04LLM-1NI	M 8x1K	M 8x1 K	12	10	26.5	16	8	4	0,006
		7450-06LLM-1NI	M 10x1K	M 10x1 K	12	12	26.5	14.5	8	6	0,008
		7450-08LLM-1NI	M 10x1K	M 10x1 K	12	14	28.5	16.5	8	8	0,010

50

**Male connector
NPTF tapered thread
SDS**

Seal type: conical thread (ASME B1.20.1)



Male stud elbow connector

BSPT tapered thread

(Form C DIN 3852-2)

SDE

Seal type: conical thread (ASME B1.20.1)

Type	W.P. bar	Part number	Dimensions							Weight kg/unit	
									Ø		
			CH1	CH2	F	L1	L2	L3	L4	tube mm	
L	315	7460-06LR-1NI	12	14	R 1/8 K	19.5	8	27	12	6	0,027
		7460-06LR04-1NI	12	14	R 1/4 K	27.5	12	29	14	6	0,035
		7460-08LR02-1NI	12	17	R 1/8 K	22.0	8	29	14	8	0,035
		7460-08LR-1NI	12	17	R 1/4 K	27.5	12	29	14	8	0,030
		7460-10LR-1NI	14	19	R 1/4 K	27.5	12	30	15	10	0,040
		7460-08LR06-1NI	14	17	R 3/8 K	28.0	12	31	16	8	0,055
		7460-10LR06-1NI	14	19	R 3/8 K	28.0	12	32	17	10	0,056
		7460-12LR04-1NI	17	22	R 1/4 K	29.0	12	32	17	12	0,070
		7460-12LR-1NI	17	22	R 3/8 K	29.5	12	32	17	12	0,072
		7460-12LR08-1NI	19	22	R 1/2 K	34.0	14	34	20	12	0,097
		7460-15LR06-1NI	19	27	R 3/8 K	30.0	12	36	21	15	0,09
		7460-15LR-1NI	19	27	R 1/2 K	36.0	14	36	21	15	0,095
		7460-18LR-1NI	24	32	R 1/2 K	36.0	14	40	23.5	18	0,126
L	160	7460-22LR-1NI	27	36	R 3/4 K	40.5	17	44	27.5	22	0,212
S	630	7460-06SR-1NI	12	17	R 1/4 K	27.5	12	31	16	6	0,045
		7460-08SR-1NI	14	19	R 1/4 K	27.5	12	32	17	8	0,055
		7460-10SR-1NI	17	22	R 3/8 K	29.5	12	34	17.5	10	0,085
		7460-12SR-1NI	17	24	R 3/8 K	29.5	12	38	21.5	12	0,080
		7460-12SR08-1NI	19	24	R 1/2 K	36.0	14	37	20.5	12	0,105
		7460-14SR-1NI	19	27	R 1/2 K	36.0	14	40	22	14	0,105
S	400	7460-16SR-1NI	24	30	R 1/2 K	36.0	14	43	24.5	16	0,139
		7460-20SR-1NI	27	36	R 3/4 K	40.5	17	48	26.5	20	0,239

7460

Male stud elbow connector Metric fine tapered thread (Form C DIN 3852-1) SDE

Seal type: conical thread (ASME B1.20.1)

Type	W.P. bar	Part number	Dimensions							Weight kg/unit	
									Ø		
			CH1	CH2	F	L1	L2	L3	L4	tube mm	
L	315	7460-06LM-1NI	12	14	M 10x1 K	20.0	8	27	12	6	0,029
		7460-08LM-1NI	12	17	M 12x1,5 K	26.0	12	29	14	8	0,043
		7460-10LM-1NI	14	19	M 14x1,5 K	27.0	12	30	15	10	0,062
		7460-12LM-1NI	17	22	M 16x1,5 K	28.0	12	32	17	12	0,085
		7460-15LM-1NI	19	27	M 18x1,5 K	32.0	12	36	21	15	0,083
		7460-18LM-1NI	24	32	M 22x1,5 K	36.0	14	40	23.5	18	0,130
S	630	7460-06SM-1NI	12	17	M 12x1,5 K	26.0	12	31	16	6	0,052
		7460-08SM-1NI	14	19	M 14x1,5 K	27.0	12	32	17	8	0,074
		7460-10SM-1NI	17	22	M 16x1,5 K	28.0	12	34	17.5	10	0,090
		7460-12SM-1NI	17	24	M 18x1,5 K	28.0	12	38	21.5	12	0,100
		7460-14SM-1NI	19	27	M 20x1,5 K	32.0	14	40	22	14	0,104
S	400	7460-16SM-1NI	24	30	M 22x1,5 K	32.0	14	43	24.5	16	0,145

Male stud elbow NPTF tapered thread (ISO 8434-1) SDE

note: Seal type: conical thread (ASME B1.20.1)

Type	W.P. bar	Part number	Dimensions							Weight kg/unit	
									Ø		
			CH1	CH2	F	L1	L2	L3	L4	tube mm	
L	315	7460-06LN-1NI	12	14	1/8 NPTF	20.0	10	27	12	6	0,030
		7460-06LN04-1NI	12	14	1/4 NPTF	26.0	15	29	14	6	0,035
		7460-08LN-1NI	12	17	1/4 NPTF	26.0	15	29	14	8	0,036
		7460-10LN-1NI	14	19	1/4 NPTF	27.0	15	30	15	10	0,049
		7460-12LN04-1NI	17	22	1/4 NPTF	28.0	15	32	17	12	0,071
		7460-12LN-1NI	17	22	3/8 NPTF	28.0	15	32	17	12	0,075
		7460-15LN-1NI	19	27	1/2 NPTF	34.0	19.5	36	21	15	0,090
		7460-18LN-1NI	24	32	1/2 NPTF	36.0	19.5	40	23.5	18	0,129
L	160	7460-22LN-1NI	27	36	3/4 NPTF	42.0	20	44	27.5	22	0,174
		7460-28LN-1NI	36	41	1 NPTF	48.0	25	47	30.6	28	0,285
S	630	7460-06SN-1NI	12	17	1/4 NPTF	26.0	15	31	16	6	0,046
		7460-08SN-1NI	14	19	1/4 NPTF	27.0	15	32	17	8	0,057
		7460-10SN-1NI	17	22	3/8 NPTF	28.0	15	34	17.5	10	0,075
		7460-12SN-1NI	17	24	3/8 NPTF	28.0	15	38	21.5	12	0,076
		7460-14SN-1NI	19	27	1/2 NPTF	34.0	19.5	40	22	14	0,104
S	400	7460-16SN-1NI	24	30	1/2 NPTF	36.0	19.5	43	24.5	16	0,146

7500

Straight union
(ISO 8434-1)
S

Type	W.P. bar	Part number	Dimensions					Weight kg/unit
							Ø	
			CH1	CH2	L1	L2	tube mm	
LL	100	7500-04LL-1NI	12	10	31.0	12	4	0,005
		7500-06LL-1NI	12	11	32.0	9	6	0,007
		7500-08LL-1NI	12	14	35.0	12	8	0,010
L	315	7500-06L-1NI	12	14	39.0	10	6	0,012
		7500-08L-1NI	14	17	40.0	11	812	

Straight reducer (ISO 8434-1)

Type	W.P. bar	Part number	Dimensions						Weight kg/unit
								Ø	
			CH1	CH2	CH3	L1	L2	tube d1 mm tube d2 mm	
L	315	7510-08/06L-1NI	14	17	14	40.5	11	8 6	0,015
		7510-10/06L-1NI	17	19	14	41.5	12	10 6	0,020
		7510-10/08L-1NI	17	19	17	42.0	12	10 8	0,021
		7510-12/06L-1NI	19	22	14	42.0	13	12 6	0,025
		7510-12/08L-1NI	19	22	17	42.5	13	12 8	0,026
		7510-12/10L-1NI	19	22	19	43.5	14	12 10	0,027
		7510-15/10L-1NI	24	27	19	45.0	15	15 10	0,041
		7510-15/12L-1NI	24	27	22	44.5	15	15 12	0,042
		7510-18/10L-1NI	27	32	19	47.0	15.5	18 10	0,056
		7510-18/12L-1NI	27	32	22	46.5	15.5	18 12	0,057
L	160	7510-18/15L-1NI	27	32	27	48.0	16.5	18 15	0,061
		7510-22/12L-1NI	32	36	22	48.5	17.5	22 12	0,076
		7510-22/15L-1NI	32	36	27	50.0	18.5	22 15	0,081
		7510-22/18L-1NI	32	36	32	51.0	18	22 18	0,086
		7510-28/18L-1NI	41	41	32	52.0	19	28 18	0,123
		7510-28/22L-1NI	41	41	36	54.0	21	28 22	0,132
		7510-35/22L-1NI	46	50	36	59.0	21	35 22	0,190
S	630	7510-35/28L-1NI	46	50	41	59.0	21	35 28	0,190
		7510-08/06S-1NI	17	19	17	48.0	18	8 6	0,034
		7510-10/06S-1NI	19	22	17	48.5	17.5	10 6	0,040

7510

Straight reducer (ISO 8434-1)

Type	W.P. bar	Part number	Dimensions						Weight kg/unit
								Ø	
			CH1	CH2	CH3	L1	L2	tube d1 mm tube d2 mm	
S	630	7510-10/08S-1NI	19	22	19	48.5	17.5	10 8	0,042
		7510-12/06S-1NI	22	24	17	50.5	19.5	12 6	0,054
		7510-12/08S-1NI	22	24	19	50.5	19.5	12 8	0,056
		7510-12/10S-1NI	22	24	22	51.0	19	12 10	0,058
		7510-14/10S-1NI	24	27	22	54.5	20.5	14 10	0,069
		7510-14/12S-1NI	24	27	24	54.5	20.5	14 12	0,070
S	400	7510-16/12S-1NI	27	30	24	54.5	20	16 12	0,080
		7510-16/14S-1NI	27	30	27	58.0	21.5	16 14	0,087
		7510-20/10S-1NI	32	36	22	59.5	22	20 10	0,122
		7510-20/12S-1NI	32	36	24	59.5	22	20 12	0,125
		7510-20/16S-1NI	32	36	30	63.0	23	20 16	0,129
		7510-25/16S-1NI	41	46	30	68.0	25.5	25 16	0,220
		7510-25/20S-1NI	41	46	36	71.0	25.5	25 20	0,232
		7510-30/20S-1NI	46	50	36	74.0	26	30 20	0,294
		7510-30/25S-1NI	46	50	46	77.0	26.5	30 25	0,311
S	315	7510-38/30S-1NI	55	60	50	87.0	29.5	38 30	0,488

Union elbow (ISO 8434-1) E

Type	W.P. bar	Part number	Dimensions					Weight kg/unit
							Ø	
			CH1	CH2	L1	L2	tube mm	
L	315	7520-06L-1NI	12	14	27.0	12	6	0,028
		7520-08L-1NI	12	17	29.0	14	8	0,032
		7520-10L-1NI	14	19	30.0	15	10	0,041
		7520-12L-1NI	17	22	32.0	17	12	0,056
		7520-15L-1NI	19	27	36.0	21	15	0,074
		7520-18L-1NI	24	32	40.0	23.5	18	0,119
L	160	7520-22L-1NI	27	36	44.0	27.5	22	0,152
		7520-28L-1NI	36	41	47.0	30.5	28	0,251
		7520-35L-1NI	41	50	56.0	34.5	35	0,431
		7520-42L-1NI	50	60	63.0	40	42	0,782
S	630	7520-06S-1NI	12	17	31.0	16	6	0,035
		7520-08S-1NI	14	19	32.0	17	8	0,052
		7520-10S-1NI	17	22	34.0	17.5	10	0,072
		7520-12S-1NI	17	24	38.0	21.5	12	0,075
		7520-14S-1NI	19	27	40.0	22	14	0,104
S	400	7520-16S-1NI	24	30	43.0	24.5	16	0,127
		7520-20S-1NI	27	36	48.0	26.5	20	0,205
		7520-25S-1NI	36	46	54.0	30	25	0,349
		7520-30S-1NI	41	50	62.0	35.5	30	0,588
S	315	7520-38S-1NI	50	60	72.0	41	38	1,031

7000

Union tee
(ISO 8434-1)
T

Type	W.P. bar	Part number	Dimensions					Weight kg/unit
							Ø	
			CH1	CH2	L1	L2	tube mm	
L	315	7000-06L-1NI	12	14	27.0	12	6	0,037
		7000-08L-1NI	12	17	29.0	14	8	0,043
		7000-10L-1NI	14	19	30.0	15	10	0,048
		7000-12L-1NI	17	22	32.0	17	12	0,065
		7000-15L-1NI	19	27	36.0	21	15	0,106
		7000-18L-1NI	24	32	40.0	23.5	18	0,179
L	160	7000-22L-1NI	27	36	44.0	27.5	22	0,225
		7000-28L-1NI	36	41	47.0	30.5	28	0,396
		7000-35L-1NI	41	50	56.0	34.5	35	0,567
		7000-42L-1NI	50	60	63.0	40	42	0,905
S	630	7000-06S-1NI	12	17	31.0	16	6	0,068
		7000-08S-1NI	14	19	32.0	17	8	0,070
		7000-10S-1NI	17	22	34.0	17.5	10	0,091
		7000-12S-1NI	17	24	38.0	21.5	12	0,117
		7000-14S-1NI	19	27	40.0	22	14	0,136
S	400	7000-16S-1NI	24	24	16.0	43	16	0,202
		7000-20S-1NI	27	27	20.0	48	20	0,289
		7000-25S-1NI	36	36	25.0	54	25	0,545
		7000-30S-1NI	41	41	30.0	62	30	0,758
S	315	7000-38S-1NI	50	50	38.0	72	38	1,264

Union cross (ISO 8434-1) K

Type	W.P. bar	Part number	Dimensions					Weight kg/unit
							Ø	
			CH1	CH2	L1	L2	tube mm	
L	315	7010-06L-1NI	14	14	27.0	12	6	0,039
		7010-08L-1NI	14	17	29.0	14	8	0,066
		7010-10L-1NI	14	19	30.0	15	10	0,072
		7010-12L-1NI	19	22	32.0	17	12	0,102
		7010-15L-1NI	19	27	36.0	21	15	0,127
		7010-18L-1NI	27	32	40.0	23.5	18	0,188
L	160	7010-22L-1NI	27	36	44.0	27.5	22	0,210
S	630	7010-06S-1NI	14	17	31.0	16	6	0,066
		7010-08S-1NI	14	19	32.0	17	8	0,081
		7010-10S-1NI	19	22	34.0	17.5	10	0,127
		7010-12S-1NI	19	24	38.0	21.5	12	0,169
S	400	7010-16S-1NI	27	30	43.0	24.5	16	0,260
		7010-20S-1NI	27	36	48.0	26.5	20	0,294

7020

**Bulkhead union
(ISO 8434-1)
BHSLN**

Type	W.P. bar	Part number	Dimensions									Weight kg/unit
			Thread								Ø	
			F	CH1	CH2	CH3	L1	L2	L3	L4	tube mm	
L	315	7020-06L-1NI	M 12x1,5	17	14	17	22.0	7	42	27	6	0,038
		7020-08L-1NI	M 14x1,5	19	17	19	23.0	8	42	27	8	0,049
		7020-10L-1NI	M 16x1,5	22	19	22	25.0	10	43	28	10	0,066
		7020-12L-1NI	M 18x1,5	24	22	24	25.0	10	44	29	12	0,076
		7020-15L-1NI	M 22x1,5	27	27	30	27.0	12	46	31	15	0,128
		7020-18L-1NI	M 26x1,5	32	32	36	30.0	13.5	49	32.5	18	0,199
L	160	7020-22L-1NI	M 30x2	36	36	41	33.0	16.5	51	34.5	22	0,248
		7020-28L-1NI	M 36x2	41	41	46	35.0	18.5	52	35.5	28	0,338
		7020-35L-1NI	M 45x2	50	50	55	40.0	18.5	58	36.5	35	0,539
		7020-42L-1NI	M 52x2	60	60	65	42.0	19	59	36	42	0,756
S	630	7020-06S-1NI	M 14x1,5	19	17	19	27.0	12	44	29	6	0,065
		7020-08S-1NI	M 16x1,5	22	19	22	28.0	13	44	29	8	0,087
		7020-10S-1NI	M 18x1,5	24	22	24	31.0	14.5	46	29.5	10	0,110
		7020-12S-1NI	M 20x1,5	27	24	27	31.0	14.5	47	30.5	12	0,139
		7020-14S-1NI	M 22x1,5	30	27	30	35.0	17	50	32	14	0,178
S	400	7020-16S-1NI	M 24x1,5	32	30	32	35.0	16.5	50	31.5	16	0,197
		7020-20S-1NI	M 30x2	41	36	41	39.0	17.5	55	33.5	20	0,345
		7020-25S-1NI	M 36x2	46	46	46	44.0	20	59	35	25	0,492
		7020-30S-1NI	M 42x2	50	50	50	48.0	21.5	64	37.5	30	0,617
S	315	7020-38S-1NI	M 52x2	65	60	65	53.0	22	68	30	38	1,080

Bulkhead elbow (ISO 8434-1) BHELN

Type	W.P. bar	Part number	Dimensions								Weight kg/unit	
			Thread							Ø		
			F	CH1	CH2	CH3	L1	L2	L3	P	tube mm	
L	315	7130-06L-1NI	M 12x1,5	12	14	17	42.0	14	27	17	6	0,049
		7130-08L-1NI	M 14x1,5	12	17	19	42.0	17	27	19	8	0,061
		7130-10L-1NI	M 16x1,5	14	19	22	43.0	18	28	22	10	0,079
		7130-12L-1NI	M 18x1,5	17	22	24	44.0	20	29	24	12	0,096
		7130-15L-1NI	M 22x1,5	19	27	30	46.0	23	31	27	15	0,169
		7130-18L-1NI	M 26x1,5	24	32	36	49.0	24	32.5	32	18	0,255
L	160	7130-22L-1NI	M 30x2	27	36	41	51.0	30	34.5	36	22	0,318
		7130-28L-1NI	M 36x2	36	41	46	52.0	34	35.5	42	28	0,462
S	630	7130-06S-1NI	M 14x1,5	12	17	19	44.0	17	29	19	6	0,076
		7130-08S-1NI	M 16x1,5	14	19	22	44.0	18	29	22	8	0,102
		7130-10S-1NI	M 18x1,5	17	22	24	46.0	20	29.5	24	10	0,124
		7130-12S-1NI	M 20x1,5	17	24	27	47.0	21	30.5	27	12	0,160
		7130-14S-1NI	M 22x1,5	19	27	30	50.0	23	32	27	14	0,196
S	400	7130-16S-1NI	M 24x1,5	24	30	32	50.0	24	31.5	30	16	0,238
		7130-20S-1NI	M 30x2	27	36	41	55.0	30	33.5	36	20	0,399
		7130-25S-1NI	M 36x2	36	46	46	59.0	34	35	42	25	0,609

M107

Bulkhead locknut

Part number	Dimensions			Weight kg/unit
	Thread			
	T	CH	L	
M107-12NI	M12x1,5	17	6	0,006
M107-14NI	M14x1,5	19	6	0,008
M107-16NI	M16x1,5	22	6	0,011
M107-18NI	M18x1,5	24	6	0,013
M107-20NI	M20x1,5	27	6	0,015
M107-22NI	M22x1,5	30	7	0,022
M107-24NI	M24x1,5	32	7	0,024
M107-26NI	M26x1,5	36	8	0,036
M107-30NI	M30x2	41	8	0,048
M107-36NI	M36x2	46	9	0,059
M107-42NI	M42x2	50	9	0,059
M107-45NI	M45x2	55	9	0,076
M107-52NI	M52x2	65	10	0,125

7360

Swivel connector BSPP thread with Elastomeric Sealing (Form E ISO 1179-2)

DKO with standard seal: FKM / Optional seal: NBR, EPDM

Type	W.P. bar	Part number	Dimensions							Weight kg/unit	
							Ø				
			CH1	CH2	I	L1	F	F1	N	tube D1 mm	
L	315	7360-06LRNI	14	14	8	24.5	1/8"	M12x1,5	14	6	0,026
		7360-08LRNI	17	19	12	29.5	1/4"	M14x1,5	19	8	0,057
		7360-10LRNI	19	19	12	27.5	1/4"	M16x1,5	19	10	0,056
L	400	7360-10LR06NI	19	22	12	28.0	3/8"	M16x1,5	22	10	0,07
L	315	7360-12LR04NI	19	19	12	27.5	1/4"	M18x1,5	19	12	0,069
		7360-12LRNI	22	22	12	34.0	3/8"	M18x1,5	22	12	0,096
		7360-12LR08NI	27	27	14	32.0	1/2"	M18x1,5	22	12	0,118
		7360-15LRNI	27	27	14	32.0	1/2"	M22x1,5	27	15	0,141
		7360-18LRNI	32	27	14	31.5	1/2"	M26x1,5	27	18	0,144
L	160	7360-22LRNI	36	32	16	32.5	3/4"	M30x2	32	22	0,201
		7360-28LRNI	41	41	18	35.0	1"	M36x2	40	28	0,293
		7360-35LRNI	50	50	20	42.5	1" 1/4	M45x2	50	35	0,509
		7360-42LRNI	60	55	22	46.5	1" 1/2	M52x2	55	42	0,722
S	630	7360-06SRNI	17	19	12	27.0	1/4"	M14x1,5	19	6	0,054
		7360-08SRNI	19	19	12	29.5	1/4"	M16x1,5	19	8	0,064
		7360-10SRNI	22	22	12	32.0	3/8"	M18x1,5	22	10	0,094
		7360-12SR04NI	24	19	12	30.0	1/4"	M20x1,5	19	12	0,077
		7360-12SRNI	24	22	12	34.0	3/8"	M20x1,5	22	12	0,100
		7360-12SR08NI	24	27	14	35.5	1/2"	M20x1,5	27	12	0,145
		7360-14SRNI	27	27	14	36.5	1/2"	M22x1,5	27	14	0,164
S	400	7360-16SRNI	30	27	14	37.0	1/2"	M24x1,5	27	16	0,171
		7360-20SRNI	36	32	16	43.0	3/4"	M30x2	32	20	0,272
		7360-25SRNI	46	41	18	48.0	1"	M36x2	40	25	0,506
		7360-30SRNI	50	50	20	51.0	1" 1/4	M42x2	50	30	0,685
S	315	7360-38SRNI	60	55	22	60.0	1" 1/2	M52x2	55	38	0,955

7360

**Swivel connector Metric fine
thread with Elastomeric Sealing
(Form E ISO 9974-2)
SWOSDS**

DKO with standard seal: FKM / Optional seal: NBR, EPDM

Type	W.P. bar	Part number	Dimensions							Weight kg/unit
							Ø			
			CH1	CH2	I	L1	F	F1	N	
L	315									

7370

Metric union reducer light series RDSW

DKO with standard seal: FKM / Optional seal: NBR, EPDM

Type	W.P. bar	Part number	Dimensions							Weight kg/unit	
								Ø			
			CH	CH2	CH3	L1	L2	D1	D2	F1	
L	315	7370-08/06L-1NI	12	14	17	23.5	38	8	6	14x1,5	0,029
		7370-10/06L-1NI	14	14	19	25.0	40	10	6	16x1,5	0,038
		7370-10/08L-1NI	14	17	19	25.0	40	10	8	16x1,5	0,038
		7370-12/06L-1NI	17	14	22	25.0	40	12	6	18x1,5	0,050
		7370-12/08L-1NI	17	17	22	25.0	40	12	8	18x1,5	0,051
		7370-12/10L-1NI	17	19	22	26.0	41	12	10	18x1,5	0,052
		7370-15/06L-1NI	22	14	27	28.5	43	15	6	22x1,5	0,087
		7370-15/08L-1NI	22	17	27	28.5	43	15	8	22x1,5	0,088
		7370-15/10L-1NI	22	19	27	29.5	44	15	10	22x1,5	0,089
		7370-15/12L-1NI	22	22	27	29.5	44	15	12	22x1,5	0,090
		7370-18/06L-1NI	24	14	32	28.0	43	18	6	26x1,5	0,111
		7370-18/08L-1NI	24	17	32	28.0	43	18	8	26x1,5	0,111
		7370-18/10L-1NI	24	19	32	29.0	44	18	10	26x1,5	0,112
		7370-18/12L-1NI	24	22	32	29.0	44	18	12	26x1,5	0,113
7370-18/15L-1NI	24	27	32	30.0	45	18	15	26x1,5	0,118		
L	160	7370-22/06L-1NI	27	14	36	32.0	47	22	6	30x2	0,154
		7370-22/08L-1NI	27	17	36	32.0	47	22	8	30x2	0,155
		7370-22/10L-1NI	27	19	36	33.0	48	22	10	30x2	0,157
		7370-22/12L-1NI	27	22	36	33.0	48	22	12	30x2	0,161
		7370-22/15L-1NI	27	27	36	34.0	49	22	15	30x2	0,162
		7370-22/18L-1NI	27	32	36	33.5	50	22	18	30x2	0,166
		7370-28/08L-1NI	36	17	41	34.0	49	28	8	36x2	0,201
		7370-28/10L-1NI	36	19	46	35.0	50	28	10	36x2	0,25
		7370-28/12L-1NI	36	22	41	35.0	50	28	12	36x2	0,201
		7370-28/15L-1NI	36	27	41	36.0	51	28	15	36x2	0,206

7370

Metric union reducer light series RDSW

DKO with standard seal: FKM / Optional seal: NBR, EPDM

Type	W.P. bar	Part number	Dimensions							Weight kg/unit	
								Ø			
			CH	CH2	CH3	L1	L2	D1	D2	F1	
L	160	7370-28/18L-1NI	36	32	41	36.5	52	28	18	36x2	0,210
		7370-28/22L-1NI	36	36	41	37.5	54	28	22	36x2	0,210
		7370-35/08L-1NI	41	17	50	37.0	52	35	8	45x2	0,306
		7370-35/10L-1NI	41	19	50	38.0	53	35	10	45x2	0,323
		7370-35/12L-1NI	41	22	50	38.0	53	35	12	45x2	0,313
		7370-35/15L-1NI	41	27	50	39.0	54	35	15	45x2	0,316
		7370-35/18L-1NI	41	32	50	38.5	55	35	18	45x2	0,319
		7370-35/22L-1NI	41	36	50	40.5	57	35	22	45x2	0,321
		7370-35/28L-1NI	41	41	50	40.5	57	35	28	45x2	0,323
		7370-42/06L-1NI	50	14	60	40.5	55	42	6	52x2	0,525
		7370-42/08L-1NI	50	17	60	41.0	48	42	8	52x2	0,52
		7370-42/10L-1NI	50	19	60	42.0	56	42	10	52x2	0,528
		7370-42/12L-1NI	50	22	60	41.5	56	42	12	52x2	0,518
		7370-42/15L-1NI	50	27	60	42.5	58	42	15	52x2	0,534
		7370-42/18L-1NI	50	32	60	42.0	58	42	18	52x2	0,527
		7370-42/22L-1NI	50	36	60	44.0	60	42	22	52x2	0,515
		7370-42/28L-1NI	50	41	60	44.0	61	42	28	52x2	0,515
		7370-42/35L-1NI	50	50	60	43.0	65	42	35	52x2	0,531

7370

Metric union reducer heavy series RDSW

DKO with standard seal: FKM / Optional seal: NBR, EPDM

Type	W.P. bar	Part number	Dimensions							Weight kg/unit	
								Ø			
			CH	CH2	CH3	L1	L2	D1	D2	F1	
S	630	7370-08/06S-1NI	14	17	19	27.0	42	8	6	16x1,5	0,043
		7370-10/06S-1NI	17	17	22	27.5	42	10	6	18x1,5	0,055
		7370-10/08S-1NI	17	19	22	27.5	42	10	8	18x1,5	0,057
		7370-12/06S-1NI	19	17	24	29.0	44	12	6	20x1,5	0,070
		7370-12/08S-1NI	19	19	24	29.0	44	12	8	20x1,5	0,071
		7370-12/10S-1NI	19	22	24	29.5	46	12	10	20x1,5	0,073
		7370-14/06S-1NI	22	17	27	31.5	46	14	6	22x1,5	0,094
		7370-14/08S-1NI	22	19	27	31.5	46	14	8	22x1,5	0,095
		7370-14/12S-1NI	22	24	27	31.0	47	14	12	22x1,5	0,104
S	400	7370-16/06S-1NI	22	17	30	32.0	47	16	6	24x1,5	0,114
		7370-16/08S-1NI	22	19	30	32.0	47	16	8	24x1,5	0,116
		7370-16/10S-1NI	22	22	30	31.5	48	16	10	24x1,5	0,117
		7370-16/12S-1NI	22	24	30	31.5	48	16	12	24x1,5	0,120
		7370-16/14S-1NI	24	27	30	33.0	51	16	14	24x1,5	0,128
		7370-20/06S-1NI	27	17	36	36.0	51	20	6	30x2	0,170
		7370-20/08S-1NI	27	19	36	36.0	51	20	8	30x2	0,172
		7370-20/10S-1NI	27	22	36	35.5	52	20	10	30x2	0,170
		7370-20/12S-1NI	27	24	36	35.5	52	20	12	30x2	0,173
		7370-20/16S-1NI	27	30	36	36.5	55	20	16	30x2	0,179
		7370-25/06S-1NI	36	17	46	38.5	53	25	6	36x2	0,309
		7370-25/08S-1NI	36	19	46	38.5	53	25	8	36x2	0,309
		7370-25/10S-1NI	36	22	46	38.0	54	25	10	36x2	0,312
		7370-25/12S-1NI	36	24	46	38.0	54	25	12	36x2	0,313
		7370-25/16S-1NI	36	30	46	39.0	57	25	16	36x2	0,317
		7370-25/20S-1NI	36	36	46	39.0	61	25	20	36x2	0,328

7370

Metric union reducer heavy series RDSW

DKO with standard seal: FKM / Optional seal: NBR, EPDM

Type	W.P. bar	Part number	Dimensions							Weight kg/unit	
								Ø			
			CH	CH2	CH3	L1	L2	D1	D2	F1	
S	400	7370-30/08S-1NI	41	22	50	43.5	60	30	8	42x2	0,4
		7370-30/10S-1NI	41	22	50	43.5	60	30	10	42x2	0,404
		7370-30/12S-1NI	41	24	50	43.5	60	30	12	42x2	0,405
		7370-30/16S-1NI	41	30	50	44.5	63	30	16	42x2	0,406
		7370-30/20S-1NI	41	36	50	44.5	66	30	20	42x2	0,422
		7370-30/25S-1NI	41	46	50	45.0	69	30	25	42x2	0,448
S	315	7370-38/06S-1NI	50	17	60	47.5	62	38	6	52x2	0,576
		7370-38/08S-1NI	50	19	60	47.5	62	38	8	52x2	0,578
		7370-38/10S-1NI	50	22	60	47.0	63	38	10	52x2	0,584
		7370-38/12S-1NI	50	24	60	47.0	63	38	12	52x2	0,592
		7370-38/16S-1NI	50	30	60	48.0	66	38	16	52x2	0,592
		7370-38/20S-1NI	50	36	60	48.0	70	38	20	52x2	0,597
		7370-38/25S-1NI	50	46	60	48.5	73	38	25	52x2	0,623
		7370-38/30S-1NI	50	50	60	49.0	76	38	30	52x2	0,636

Swivel union (ISO 8434-1) SW20S

DKO with standard seal: FKM / Optional seal: NBR, EPDM

Type	W.P. bar	Part number	Dimensions				Weight kg/unit
						Ø	
			CH1	L2	L3	tube mm	
L	315	7380-06LNI	14	34	35	6	0,029
		7380-08LNI	17	34	35	8	0,044
		7380-10LNI	19	36	37	10	0,059
		7380-12LNI	22	36	37	12	0,077
		7380-15LNI	27	39	40	15	0,143
		7380-18LNI	32	40.5	41.5	18	0,180
L	160	7380-22LNI	36	45	46	22	0,250
		7380-28LNI	41	47	48	28	0,312
		7380-35LNI	50	53	56	35	0,480
		7380-42LNI	60	53	57	42	0,745
S	630	7380-06SNI	17	37	38	6	0,045
		7380-08SNI	19	37	38	8	0,060
		7380-10SNI	22	41	43	10	0,085
		7380-12SNI	24	42	44	12	0,104
		7380-14SNI	27	45	48	14	0,156
S	400	7380-16SNI	30	46	49	16	0,186
		7380-20SNI	36	55	59	20	0,295
		7380-25SNI	46	58	65	25	0,560
		7380-30SNI	50	62	71	30	0,685
S	315	7380-38SNI	60	67	82	38	0,995

7330

Swivel elbow (ISO 8434-1) SWOE

DKO with standard seal: FKM / Optional seal: NBR, EPDM

Type	W.P. bar	Part number	Dimensions						Weight kg/unit
								Ø	
			CH1	CH2	L	L1	L2	F1 tube D1 mm	
L	315	7330-06L-1NI	14	12	27	12.0	26	M12x1,5	0,041
		7330-08L-1NI	17	12	29	14.0	27.5	M14x1,5	0,062
		7330-10L-1NI	19	14	30	15.0	29	M16x1,5	0,053
		7330-12L-1NI	22	17	32	17.0	29.5	M18x1,5	0,101
		7330-15L-1NI	27	19	36	21.0	32.5	M22x1,5	0,129
		7330-18L-1NI	32	24	40	23.5	35.5	M26x1,5	0,186
L	160	7330-22L-1NI	36	27	44	27.5	38.5	M30x2	0,253
		7330-28L-1NI	41	36	47	30.5	41.5	M36x2	0,342
		7330-35L-1NI	50	41	56	34.5	51	M45x2	0,574
		7330-42L-1NI	60	50	63	40.0	56	M52x2	1,030
S	630	7330-06S-1NI	17	12	31	16.0	27	M14x1,5	0,062
		7330-08S-1NI	19	14	32	17.0	27.5	M16x1,5	0,085
		7330-10S-1NI	22	17	34	17.5	30	M18x1,5	0,122
		7330-12S-1NI	24	17	38	21.5	31	M20x1,5	0,108
		7330-14S-1NI	27	19	40	22.0	35	M22x1,5	0,149
S	400	7330-16S-1NI	30	24	43	24.5	36.5	M24x1,5	0,201
		7330-20S-1NI	36	27	48	26.5	44.5	M30x2	0,305
		7330-25S-1NI	46	36	54	30.0	50	M36x2	0,554
		7330-30S-1NI	50	41	62	35.5	55	M42x2	0,779
S	315	7330-38S-1NI	60	50	72	41.0	63	M52x2	1,186

Swivel 45° elbow (ISO 8434-1) SWOE45

DKO with standard seal: FKM / Optional seal: NBR, EPDM

Type	W.P. bar	Part number	Dimensions						Weight kg/unit	
								Ø		
			CH1	CH2	L	L1	L2	F1	tube D1 mm	
L	315	7335-06L-1NI	14	12	24	9.0	24	M12x1,5	6	0,069
		7335-08L-1NI	17	12	27	12.0	26	M14x1,5	8	0,075
		7335-10L-1NI	19	14	27	12.0	27	M16x1,5	10	0,078
		7335-12L-1NI	22	19	29	14.0	28	M18x1,5	12	0,086
		7335-15L-1NI	27	22	31	16.0	31	M22x1,5	15	0,126
		7335-18L-1NI	32	27	33.5	17.0	34	M26x1,5	18	0,178
L	160	7335-22L-1NI	36	27	35	18.5	37	M30x2	22	0,236
		7335-28L-1NI	41	36	39	22.5	37	M36x2	28	0,336
		7335-35L-1NI	50	41	44	22.5	41.5	M45x2	35	0,546
		7335-42L-1NI	60	50	49	27	53	M52x2	42	0,841
S	630	7335-06S-1NI	17	12	25	16.0	25	M14x1,5	6	0,073
		7335-08S-1NI	19	14	27	16.0	26	M16x1,5	8	0,082
		7335-10S-1NI	22	19	29	16.5	28	M18x1,5	10	0,095
		7335-12S-1NI	24	19	33	16.5	29	M20x1,5	12	0,112
		7335-14S-1NI	27	22	34	16.0	30	M22x1,5	14	0,136
S	400	7335-16S-1NI	30	27	35	16.5	34	M24x1,5	16	0,188
		7335-20S-1NI	36	27	39	17.5	41	M30x2	20	0,286
		7335-25S-1NI	46	36	43	19.0	39.5	M36x2	25	0,523
		7335-30S-1NI	50	41	50	23.5	42.5	M42x2	30	0,697
		7335-38S-1NI	60	50	55	27	58	M52x2	38	1,067

7350

Swivel Run Tee (ISO 8434-1)

DKO with standard seal: FKM / Optional seal: NBR, EPDM

[illegible]

Swivel branch tee (ISO 8434-1) SWOBT

DKO with standard seal: FKM / Optional seal: NBR, EPDM

Type	W.P. bar	Part number	Dimensions						Weight kg/unit	
							Ø			
			CH1	CH2	L1	L2	F1	L		tube D1 mm
L	315	7340-06L-1NI	14	12	12.0	26	12x1,5	27	6	0,049
		7340-08L-1NI	17	12	14.0	27.5	14x1,5	29	8	0,059
		7340-10L-1NI	19	14	15.0	29	16x1,5	30	10	0,092
		7340-12L-1NI	22	17	17.0	29.5	18x1,5	32	12	0,110
		7340-15L-1NI	27	19	21.0	32.5	22x1,5	36	15	0,154
		7340-18L-1NI	32	24	23.5	35.5	26x1,5	40	18	0,215
L	160	7340-22L-1NI	36	27	27.5	38.5	30x2	44	22	0,277
		7340-28L-1NI	41	36	30.5	41.5	36x2	47	28	0,397
		7340-35L-1NI	50	41	34.5	51	45x2	56	35	0,680
		7340-42L-1NI	60	50	40.0	56	52x2	63	42	1,138
S	630	7340-06S-1NI	17	12	16.0	27	14x1,5	31	6	0,067
		7340-08S-1NI	19	14	17.0	27.5	16x1,5	32	8	0,095
		7340-10S-1NI	22	17	17.5	30	18x1,5	34	10	0,130
		7340-12S-1NI	24	17	21.5	31	20x1,5	38	12	0,135
		7340-14S-1NI	27	19	22.0	35	22x1,5	40	14	0,181
S	400	7340-16S-1NI	30	24	24.5	36.5	24x1,5	43	16	0,246
		7340-20S-1NI	36	27	26.5	44.5	30x2	48	20	0,356
		7340-25S-1NI	46	36	30.0	50	36x2	54	25	0,637
		7340-30S-1NI	50	41	35.5	55	42x2	62	30	0,916
S	315	7340-38S-1NI	60	50	41.0	63	52x2	72	38	1,478

7600

90° Adjustable Metric stud elbow with O-ring and retaining ring

Type	W.P. bar	Part number	Dimensions										Weight kg/unit
			Thread								Ø		
											F	CH1	
L	315	7600-06LM-1NI	M10x1	12	14	14	14.8	12.0	23	6	27	6	0,040
		7600-08LM-1NI	M12x1,5	14	17	17	17.8	14.0	25.5	7.5	29	8	0,061
		7600-10LM-1NI	M14x1,5	14	19	19	19.8	15.0	26	8	30	10	0,065
L	250	7600-12LM-1NI	M16x1,5	17	22	22	21.8	17.0	30	8	32	12	0,096
		7600-15LM-1NI	M18x1,5	19	24	27	23.8	21.0	31.5	9.5	36	15	0,125
		7600-18LM-1NI	M22x1,5	24	27	32	27.8	23.5	33.5	9.5	40	18	0,160
L	160	7600-22LM-1NI	M27x2	27	32	36	32.8	27.5	40	12	44	22	0,279
		7600-28LM-1NI	M33x2	36	41	41	39.8	30.5	44	12	47	28	0,359
		7600-35LM-1NI	M42x2	41	50	50	49.8	34.5	48	12	56	35	0,659
		7600-42LM-1NI	M48x2	50	55	60	55.8	40.0	55	12	63	42	1,064
S	315	7600-06SM-1NI	M12x1,5	14	17	17	17.8	16.0	25.5	7.5	31	6	0,069
		7600-08SM-1NI	M14x1,5	14	19	19	19.8	17.0	26	8	32	8	0,075
		7600-10SM-1NI	M16x1,5	17	22	22	21.8	17.5	30	8	34	10	0,122
		7600-12SM-1NI	M18x1,5	19	24	24	23.8	21.5	31.5	9.5	38	12	0,155
S	250	7600-16SM-1NI	M22x1,5	24	27	30	27.8	24.5	33.5	9.5	43	16	0,246
		7600-20SM-1NI	M27x2	27	32	36	32.8	26.5	40	12	48	20	0,343
S	160	7600-25SM-1NI	M33x2	36	41	46	39.8	30.0	44	12	54	25	0,505
		7600-30SM-1NI	M42x2	41	50	50	49.8	35.5	48	12	62	30	0,769
		7600-38SM-1NI	M48x2	50	55	60	55.8	41.0	55	12	72	38	1,331

7600

90° Adjustable BSP stud elbow (ISO 1179)

Type	W.P. bar	Part number	Dimensions									Weight kg/unit	
			Thread								Ø		
			F	CH1	CH2	CH3	D2	L1	L2	L3	L	tube d1 mm	
L	200	7600-06LR-1NI	G 1/8	12	14	14	14.8	12.0	21	6	27	6	0,035
		7600-08LR-1NI	G 1/4	14	19	17	19.8	14.0	25	8	29	8	0,045
		7600-10LR-1NI	G 1/4	14	19	19	19.8	15.0	25	8	30	10	0,050
		7600-12LR-1NI	G 3/8	17	22	22	22.8	17.0	29	8	32	12	0,076
		7600-15LR-1NI	G 1/2	19	30	27	27.8	21.0	32.5	10.5	36	15	0,115
		7600-18LR-1NI	G 1/2	24	30	32	27.8	23.5	32.5	10.5	40	18	0,185
L	160	7600-22LR-1NI	G 3/4	27	36	36	32.8	27.5	39	11	44	22	0,336
		7600-28LR-1NI	G 1	36	41	41	40.8	30.5	43	12	47	28	0,437
		7600-35LR-1NI	G 1 1/4	41	50	50	50.8	34.5	46	12	56	35	0,705
		7600-42LR-1NI	G 1 1/2	50	55	60	55.8	40.0	51	12	63	42	1,154
S	200	7600-06SR-1NI	G 1/4	14	19	17	19.8	16.0	21	6	31	6	0,045
		7600-08SR-1NI	G 1/4	14	19	19	19.8	17.0	25	8	32	8	0,055
		7600-10SR-1NI	G 3/8	17	22	22	22.8	17.5	25	8	34	10	0,085
		7600-12SR-1NI	G 3/8	17	22	24	22.8	21.5	29	8	38	12	0,095
		7600-16SR-1NI	G 1/2	24	30	30	27.8	24.5	32.5	10.5	43	16	0,193
		7600-20SR-1NI	G 3/4	27	36	36	32.8	26.5	39	11	48	20	0,362
		7600-25SR-1NI	G 1	36	41	46	40.8	30.0	43	12	54	25	0,465
S	160	7600-30SR-1NI	G 1 1/4	41	50	50	50.8	35.5	46	12	62	30	0,750
		7600-38SR-1NI	G 1 1/2	50	55	60	55.8	41.0	51	12	72	38	1,295

7600

90° Adjustable UNF stud elbow (ISO 11926)

Type	W.P. bar	Part number	Dimensions										Weight kg/unit
			Thread							Ø			
			F	CH1	CH2	CH3	D2	L1	L2	L3	L	tube d1 mm	
L	315	7600-06LU-1NI	7/16-20	12	14	14	16.5	12.0	20	7	27	6	0,032
		7600-08LU-1NI	7/16-20	12	14	17	16.5	14.0	23	7	29	8	0,037
L	250	7600-10LU-1NI	9/16-18	14	17	19	20.2	15.0	25	8	30	10	0,055
		7600-12LU06-1NI	9/16-18	17	17	22	20.2	17.0	25	8	32	12	0,075
		7600-12LU-1NI	3/4-16	17	22	22	25.7	17.0	28	9	32	12	0,092
		7600-15LU08-1NI	3/4-16	19	22	27	25.7	21.0	28	9	36	15	0,115
L	200	7600-15LU-1NI	7/8-14	24	27	27	29.3	21.0	33	10	36	15	0,154
		7600-18LU10-1NI	7/8-14	24	27	32	29.3	23.5	33	10	40	18	0,201
		7600-18LU-1NI	1.1/16-12	27	36	32	36.7	23.5	38	12	40	18	0,223
L	160	7600-22LU-1NI	1.1/16-12	27	36	36	36.7	27.5	38	12	44	22	0,250
		7600-28LU-1NI	1.5/16-12	36	41	41	44	30.5	43	12	47	28	0,446
L	125	7600-35LU-1NI	1.5/8-12	41	50	50	55	34.5	46	12	56	35	0,901
		7600-42LU-1NI	1.7/8-12	50	55	60	62.3	40.0	51	12	63	42	1.043
S	400	7600-06SU-1NI	7/16-20	12	14	17	16.5	16.0	20	7	31	6	0,036
		7600-08SU-1NI	9/16-18	14	17	19	20.2	17.0	25	8	32	8	0,052
		7600-10SU-1NI	9/16-18	17	17	22	20.2	17.5	25	8	34	10	0,073
		7600-12SU-1NI	3/4-16	17	22	24	25.7	21.5	29	9	38	12	0,089
		7600-16SU-1NI	7/8-14	24	27	30	29.3	24.5	33	10	43	16	0,175
		7600-20SU-1NI	1.1/16-12	27	36	36	36.7	26.5	38	12	48	20	0,377
S	315	7600-25SU-1NI	1.5/16-12	36	41	46	44	30.0	43	12	54	25	0,668
S	250	7600-30SU-1NI	1.5/8-12	41	50	50	55	35.5	46	12	62	30	0,901
S	200	7600-38SU-1NI	1.7/8-12	50	55	60	62.3	41.0	51	12	72	38	1,515

90° Adjustable Metric stud elbow (ISO 6149)

Type	W.P. bar	Part number	Dimensions										Weight kg/unit
			Thread								Ø		
			F	CH1	CH2	CH3	D2	L1	L2	L3	L	tube d1 mm	
L	315	7605-06LM-1NI	M10x1	12	14	14	14.5	12.0	23	6	27	6	0,026
		7605-08LM-1NI	M12x1,5	14	17	17	17.5	14.0	25.5	7.5	29	8	0,041
		7605-10LM-1NI	M14x1,5	14	19	19	19.5	15.0	26	8	30	10	0,048
L	250	7605-12LM-1NI	M16x1,5	17	22	22	22.5	17.0	30	8	32	12	0,065
		7605-15LM-1NI	M18x1,5	19	24	27	24.5	21.0	31.5	9.5	36	15	0,104
		7605-18LM-1NI	M22x1,5	24	27	32	27.5	23.5	33.5	9.5	40	18	0,157
L	160	7605-22LM-1NI	M27x2	27	32	36	32.5	27.5	40	12	44	28	0,207
		7605-28LM-1NI	M33x2	36	41	41	41.5	30.5	44	12	47	28	0,345
		7605-35LM-1NI	M42x2	41	50	50	50.5	34.5	48	12	56	35	0,527
		7605-42LM-1NI	M48x2	50	55	60	55.5	40.0	55	12	63	42	0,813
S	400	7605-06SM-1NI	M12x1,5	12	17	17	17.5	16.0	25.5	7.5	31	6	0,046
		7605-08SM-1NI	M14x1,5	14	19	19	19.5	17.0	26	8	32	8	0,064
		7605-10SM-1NI	M16x1,5	17	22	22	22.5	17.5	30	8	34	10	0,086
		7605-12SM-1NI	M18x1,5	17	24	24	24.5	21.5	31.5	9.5	38	12	0,116
		7605-16SM-1NI	M22x1,5	24	27	30	27.5	24.5	33.5	9.5	43	16	0,179
		7605-20SM-1NI	M27x2	27	32	36	32.5	26.5	40	12	48	20	0,287
S	315	7605-25SM-1NI	M33x2	36	41	46	41.5	30.0	44	12	54	25	0,480
S	250	7605-30SM-1NI	M42x2	41	50	50	50.5	35.5	46	12	62	30	0,765
S	200	7605-38SM-1NI	M48x2	50	55	60	55.5	41.0	54	13	72	38	1,145

7630

45° Adjustable BSP stud elbow (ISO 1179)

Type	W.P. bar	Part number	Dimensions									Weight kg/unit	
			Thread								Ø		
			F	CH1	CH2	CH3	D2	L	L1	L2	L3	tube d1 mm	
L	315	7630-06LR-1NI	G 1/8	12	14	14	14.8	24	9.0	21	6	6	0,061
		7630-08LR-1NI	G 1/4	14	19	17	19.8	27	12.0	25	8	8	0,065
		7630-10LR-1NI	G 1/4	14	19	19	19.8	27	12.0	25	8	10	0,067
		7630-12LR-1NI	G 3/8	19	22	22	22.8	29	14.0	29	8	12	0,083
		7630-15LR-1NI	G 1/2	22	30	27	27.8	31	16.0	32.5	10.5	15	0,098
		7630-18LR-1NI	G 1/2	27	30	32	27.8	33.5	17.0	32.5	10.5	18	0,185
L	160	7630-22LR-1NI	G 3/4	27	36	36	32.8	35	18.5	39	11	22	0,198
		7630-28LR-1NI	G 1	36	41	41	40.8	39	22.5	43	12	28	0,323
		7630-35LR-1NI	G 1 1/4	41	50	50	50.8	44	22.5	46	12	35	0,537
S	400	7630-06SR-1NI	G 1/8	14	12	14	14.8	25	9.0	21	6	6	0,065
		7630-08SR-1NI	G 1/4	14	19	19	19.8	27	12.0	25	8	8	0,070
		7630-10SR-1NI	G 3/8	19	22	22	22.8	29	12.5	25	8	10	0,091
		7630-12SR-1NI	G 3/8	19	22	24	22.8	33	16.5	29	8	12	0,104
		7630-16SR-1NI	G 1/2	27	30	30	27.8	35	16.5	32.5	10.5	16	0,277
		7630-20SR-1NI	G 3/4	27	36	36	32.8	39	17.5	39	11	20	0,285
S	315	7630-25SR-1NI	G 1	36	41	46	40.8	43	19.0	43	12	25	0,452
S	250	7630-30SR-1NI	G 1 1/4	41	50	50	50.8	50	23.5	46	12	30	0,720

45° Adjustable Metric stud elbow (ISO 6149)

Type	W.P. bar	Part number	Dimensions										Weight kg/unit
			Thread									Ø	
			F	CH1	CH2	CH3	D2	L	L1	L2	L3	tube d1 mm	
L	315	7635-06LM-1NI	M 10x1	12	14	14	14.5	24	9.0	23	6	6	0,061
		7635-08LM-1NI	M 12x1,5	14	17	17	17.5	27	12.0	25.5	7.5	8	0,065
		7635-10LM-1NI	M 14x1,5	14	19	19	19.5	27	12.0	26	8	10	0,069
L	250	7635-12LM-1NI	M 16x1,5	19	22	22	22.5	29	14.0	30	8	12	0,081
		7635-15LM-1NI	M 18x1,5	22	24	27	24.5	31	16.0	31.5	9.5	15	0,085
		7635-18LM-1NI	M 22x1,5	27	27	32	27.5	33.5	17.0	32.5	9.5	18	0,198
L	160	7635-22LM-1NI	M 27x2	27	32	36	32.5	35	18.5	40	12	22	0,201
		7635-28LM-1NI	M 33x2	36	41	41	41.5	39	22.5	44	12	28	0,323
		7635-35LM-1NI	M 42x2	41	50	50	50.5	44	22.5	48	12	35	0,637
S	400	7635-06SM-1NI	M 12x1,5	14	17	17	17.5	25	9.0	25.5	7.5	6	0,065
		7635-08SM-1NI	M 14x1,5	14	19	19	19.5	27	12.0	26	8	8	0,071
		7635-10SM-1NI	M 16x1,5	19	22	22	22.5	29	12.5	30	8	10	0,091
		7635-12SM-1NI	M 18x1,5	22	24	24	24.5	33	16.5	31.5	9.5	12	0,110
		7635-16SM-1NI	M 22x1,5	27	27	30	27.5	35	16.5	32.5	9.5	16	0,183
		7635-20SM-1NI	M 27x2	27	32	36	32.5	39	17.5	40	12	20	0,277
S	315	7635-25SM-1NI	M 33x2	36	41	46	41.5	43	19.0	44	12	25	0,452
S	250	7635-30SM-1NI	M 42x2	41	50	50	50.5	50	23.5	48	12	30	0,720

7610

Adjustable stud Run Tee BSP (ISO 1179)

Type	W.P. bar	Part number	Dimensions									Weight kg/unit	
			Thread										Ø
			F	CH1	CH2	CH3	D2	L	L1	L2	L3	tube d1 mm	
L	200	7610-06LR-1NI	G 1/8	12	14	14	14.8	27	12.0	21	6	6	0,039
		7610-08LR-1NI	G 1/4	14	19	17	19.8	29	14.0	25	8	8	0,048
		7610-10LR-1NI	G 1/4	14	19	19	19.8	30	15.0	25	8	10	0,055
		7610-12LR-1NI	G 3/8	17	22	22	22.8	32	17.0	29	8	12	0,072
		7610-15LR-1NI	G 1/2	19	30	27	27.8	36	21.0	32.5	10.5	15	0,122
		7610-18LR-1NI	G 1/2	24	30	32	27.8	40	23.5	32.5	10.5	18	0,190
L	160	7610-22LR-1NI	G 3/4	27	36	36	32.8	44	27.5	39	11	22	0,282
		7610-28LR-1NI	G 1	36	41	41	40.8	47	30.5	43	12	28	0,468
		7610-35LR-1NI	G 1 1/4	41	50	50	50.8	56	34.5	46	12	35	0,901
		7610-42LR-1NI	G 1 1/2	50	55	60	55.8	63	40.0	51	12	42	1,028
S	200	7610-06SR-1NI	G 1/4	14	19	17	19.8	31	16.0	25	8	6	0,056
		7610-08SR-1NI	G 1/4	14	19	19	19.8	32	17.0	25	8	8	0,060
		7610-10SR-1NI	G 3/8	17	22	22	22.8	34	17.5	29	8	10	0,089
		7610-12SR-1NI	G 3/8	17	22	24	22.8	38	21.5	29	8	12	0,092
		7610-16SR-1NI	G 1/2	24	30	30	27.8	43	24.5	32.5	10.5	16	0,296
		7610-20SR-1NI	G 3/4	27	36	36	32.8	48	26.5	39	11	20	0,377
		7610-25SR-1NI	G 1	36	41	46	40.8	54	30.0	43	12	25	0,667
S	160	7610-30SR-1NI	G 1 1/4	41	50	50	50.8	62	35.5	46	12	30	1,164
		7610-38SR-1NI	G 1 1/2	50	55	60	55.8	72	41.0	51	12	38	1,514

Adjustable stud Run Tee UNF (ISO 11926)

Type	W.P. bar	Part number	Dimensions										Weight kg/unit
			Thread									Ø	
			F	CH1	CH2	CH3	D2	L	L1	L2	L3	tube d1 mm	
L	315	7610-06LU-1NI	7/16-20	12	14	14	16.5	27	12.0	20	7	6	0,036
		7610-08LU-1NI	7/16-20	12	14	17	16.5	29	14.0	20	7	8	0,039
L	250	7610-10LU-1NI	9/16-18	14	17	19	20.2	30	15.0	25	8	10	0,051
		7610-12LU06-1NI	9/16-18	17	17	22	20.2	32	17.0	25	8	12	0,070
		7610-12LU-1NI	3/4-16	17	22	22	25.7	32	17.0	28	9	12	0,071
		7610-15LU08-1NI	3/4-16	19	22	27	25.7	36	21.0	28	9	15	0,106
L	200	7610-15LU-1NI	7/8-14	24	27	27	29.3	36	21.0	33	10	15	0,201
		7610-18LU10-1NI	7/8-14	27	27	32	29.3	40	23.5	33	10	18	0,214
		7610-18LU-1NI	1.1/16-12	27	32	32	36.7	40	23.5	38	12	18	0,269
L	160	7610-22LU-1NI	1.1/16-12	27	32	36	36.7	44	27.5	38	12	22	0,282
		7610-28LU-1NI	1.5/16-12	36	41	41	44	47	30.5	43	12	28	0,468
L	125	7610-35LU-1NI	1.5/8-12	41	50	50	55	56	34.5	46	12	35	0,901
		7610-42LU-1NI	1.7/8-12	50	55	60	62.3	63	40.0	51	12	42	1,028
S	400	7610-06SU-1NI	7/16-20	12	14	17	16.5	31	16.0	20	7	6	0,040
		7610-08SU-1NI	9/16-18	14	17	19	20.2	32	17.0	25	8	8	0,060
		7610-10SU-1NI	9/16-18	17	17	22	20.2	34	17.5	25	8	10	0,075
		7610-12SU-1NI	3/4-16	17	22	24	25.7	38	21.5	28	9	12	0,081
		7610-16SU-1NI	7/8-14	24	27	30	29.3	43	24.5	33	10	16	0,221
		7610-20SU-1NI	1.1/16-12	27	32	36	36.7	48	26.5	38	12	20	0,267
S	315	7610-25SU-1NI	1.5/16-12	36	41	46	44	54	30.0	43	12	25	0,667
S	250	7610-30SU-1NI	1.5/8-12	41	50	50	55	62	35.5	46	12	30	1,164
S	200	7610-38SU-1NI	1.7/8-12	50	55	60	62.3	72	41.0	51	12	38	1,514

7615

Adjustable stud Run Tee Metric (ISO 6149)

Type	W.P. bar	Part number	Dimensions										Weight kg/unit
			Thread									Ø	
			F	CH1	CH2	CH3	D2	L	L1	L2	L3	tube d1 mm	
L	315	7615-06LM-1NI	M 10x1	12	14	14	14.5	27	12.0	23	6	6	0,039
		7615-08LM-1NI	M 12x1,5	14	17	17	17.5	29	14.0	25.5	7.5	8	0,052
		7615-10LM-1NI	M 14x1,5	14	19	19	19.5	30	15.0	26	8	10	0,055
L	250	7615-12LM-1NI	M 16x1,5	17	22	22	22.5	32	17.0	30	8	12	0,069
		7615-15LM-1NI	M 18x1,5	19	24	27	24.5	36	21.0	31.5	9.5	15	0,106
		7615-18LM-1NI	M 22x1,5	24	27	32	27.5	40	23.5	32.5	9.5	18	0,198
L	160	7615-22LM-1NI	M 27x2	27	32	36	32.5	44	27.5	40	12	22	0,0282
		7615-28LM-1NI	M 33x2	36	41	41	41.5	47	30.5	44	12	28	0,468
		7615-35LM-1NI	M 42x2	41	50	50	50.5	56	34.5	48	12	35	0,901
		7615-42LM-1NI	M 48x2	50	55	60	55.5	63	40.0	54	13	42	1,028
S	400	7615-06SM-1NI	M 12x1,5	12	17	17	17.5	31	16.0	25.5	7.5	6	0,041
		7615-08SM-1NI	M 14x1,5	14	19	19	19.5	32	17.0	26	8	8	0,055
		7615-10SM-1NI	M 16x1,5	17	22	22	22.5	34	17.5	30	8	10	0,075
		7615-12SM-1NI	M 18x1,5	17	24	24	24.5	38	21.5	31.5	9.5	12	0,077
		7615-16SM-1NI	M 22x1,5	24	27	30	27.5	43	24.5	32.5	9.5	16	0,201
		7615-20SM-1NI	M 27x2	27	32	36	32.5	48	26.5	40	12	20	0,377
S	315	7615-25SM-1NI	M 33x2	36	41	46	41.5	54	30.0	44	12	25	0,667
S	250	7615-30SM-1NI	M 42x2	41	50	50	50.5	62	35.5	48	12	30	1,116
S	200	7615-38SM-1NI	M 48x2	50	55	60	55.5	72	41.0	54	13	38	1,514

Adjustable stud Branch Tee BSP (ISO 1179)

Type	W.P. bar	Part number	Dimensions									Weight kg/unit	
			Thread								Ø		
			F	CH1	CH2	CH3	D2	L1	L2	L3	L	tube d1 mm	
L	200	7620-06LR-1NI	G 1/8	12	14	14	14.8	12.0	21	6	27	6	0,038
		7620-08LR-1NI	G 1/4	14	19	17	19.8	14.0	25	8	29	8	0,051
		7620-10LR-1NI	G 1/4	14	19	19	19.8	15.0	25	8	30	10	0,055
		7620-12LR-1NI	G 3/8	17	22	22	22.8	17.0	29	8	32	12	0,073
		7620-15LR-1NI	G 1/2	19	30	27	27.8	21.0	32.5	10.5	36	15	0,108
		7620-18LR-1NI	G 1/2	24	30	32	27.8	23.5	32.5	10.5	40	18	0,221
L	160	7620-22LR-1NI	G 3/4	27	36	36	32.8	27.5	39	11	44	22	0,285
		7620-28LR-1NI	G 1	36	41	41	40.8	30.5	43	12	47	28	0,475
		7620-35LR-1NI	G 1 1/4	41	50	50	50.8	34.5	46	12	56	35	0,855
		7620-42LR-1NI	G 1 1/2	50	55	60	55.8	40.0	51	12	63	42	1,028
S	200	7620-06SR-1NI	G 1/4	14	19	17	19.8	16.0	21	6	31	6	0,045
		7620-08SR-1NI	G 1/4	14	19	19	19.8	17.0	25	8	32	8	0,061
		7620-10SR-1NI	G 3/8	17	22	22	22.8	17.5	29	8	34	10	0,073
		7620-12SR-1NI	G 3/8	17	22	24	22.8	21.5	29	8	38	12	0,077
		7620-16SR-1NI	G 1/2	24	30	30	27.8	24.5	32.5	10.5	43	16	0,222
		7620-20SR-1NI	G 3/4	27	36	36	32.8	26.5	39	11	48	20	0,291
		7620-25SR-1NI	G 1	36	41	46	40.8	30.0	43	12	54	25	0,477
S	160	7620-30SR-1NI	G 1 1/4	41	50	50	50.8	35.5	46	12	62	30	0,899
		7620-38SR-1NI	G 1 1/2	50	55	60	55.8	41.0	51	12	72	38	1,028

7620

Adjustable stud Branch Tee UNF (ISO 11926)

Type	W.P. bar	Part number	Dimensions										Weight kg/unit
			Thread									Ø	
			F	CH1	CH2	CH3	D2	L	L1	L2	L3	tube d1 mm	
L	315	7620-06LU-1NI	7/16-20	12	14	14	16.5	27	12.0	20	7	6	0,036
		7620-08LU-1NI	7/16-20	12	14	17	16.5	29	14.0	20	7	8	0,039
L	250	7620-10LU-1NI	9/16-18	14	17	19	20.2	30	15.0	25	8	10	0,049
		7620-12LU06-1NI	9/16-18	17	17	22	20.2	32	17.0	25	8	12	0,073
		7620-12LU-1NI	3/4-16	17	22	22	25.7	32	17.0	28	9	12	0,075
		7620-15LU08-1NI	3/4-16	19	22	27	25.7	36	21.0	28	9	15	0,108
L	200	7620-15LU-1NI	7/8-14	24	27	27	29.3	36	21.0	33	10	15	0,201
		7620-18LU10-1NI	7/8-14	24	27	32	29.3	40	23.5	33	10	18	0,210
		7620-18LU-1NI	1.1/16-12	27	32	32	36.7	40	23.5	38	12	18	0,282
L	160	7620-22LU-1NI	1.1/16-12	27	32	36	36.7	44	27.5	38	12	22	0,290
		7620-28LU-1NI	1.5/16-12	36	41	41	44	47	30.5	43	12	28	0,473
L	125	7620-35LU-1NI	1.5/8-12	41	50	50	55	56	34.5	46	12	35	0,901
		7620-42LU-1NI	1.7/8-12	50	55	60	62.3	63	40.0	51	12	42	1,028
S	400	7620-06SU-1NI	7/16-20	12	14	17	16.5	31	16.0	20	7	6	0,039
		7620-08SU-1NI	9/16-18	14	17	19	20.2	32	17.0	25	8	8	0,059
		7620-10SU-1NI	9/16-18	17	17	22	20.2	34	17.5	25	8	10	0,073
		7620-12SU-1NI	3/4-16	17	22	24	25.7	38	21.5	28	9	12	0,077
		7620-16SU-1NI	7/8-14	24	27	30	29.3	43	24.5	33	10	16	0,210
		7620-20SU-1NI	1.1/16-12	27	32	36	36.7	48	26.5	38	12	20	0,380
S	315	7620-25SU-1NI	1.5/16-12	36	41	46	44	54	30.0	43	12	25	0,668
S	250	7620-30SU-1NI	1.5/8-12	41	50	50	55	62	35.5	46	12	30	1,168
S	200	7620-38SU-1NI	1.7/8-12	50	55	60	62.3	72	41.0	51	12	38	1,515

Adjustable stud Branch Tee Metric (ISO 6149)

Type	W.P. bar	Part number	Dimensions										Weight kg/unit
			Thread									Ø	
			F	CH1	CH2	CH3	D2	L	L1	L2	L3	tube d1 mm	
L	315	7625-06LM-1NI	M 10x1	12	14	14	14.5	27	12.0	23	6	6	0,041
		7625-08LM-1NI	M 12x1,5	14	17	17	17.5	29	14.0	25.5	7.5	8	0,047
		7625-10LM-1NI	M 14x1,5	14	19	19	19.5	30	15.0	26	8	10	0,055
L	250	7625-12LM-1NI	M 16x1,5	17	22	22	22.5	32	17.0	30	8	12	0,073
		7625-15LM-1NI	M 18x1,5	19	24	27	24.5	36	21.0	31.5	9.5	15	0,108
		7625-18LM-1NI	M 22x1,5	24	27	32	27.5	40	23.5	32.5	9.5	18	0,210
L	160	7625-22LM-1NI	M 27x2	27	32	36	32.5	44	27.5	40	12	22	0,295
		7625-28LM-1NI	M 33x2	36	41	41	41.5	47	30.5	44	12	28	0,475
		7625-35LM-1NI	M 42x2	41	50	50	50.5	56	34.5	48	12	35	0,901
		7625-42LM-1NI	M 48x2	50	55	60	55.5	63	40.0	54	13	42	1,028
S	400	7625-06SM-1NI	M 12x1,5	12	17	17	17.5	31	16.0	25.5	7.5	6	0,041
		7625-08SM-1NI	M 14x1,5	14	19	19	19.5	32	17.0	26	8	8	0,061
		7625-10SM-1NI	M 16x1,5	17	22	22	22.5	34	17.5	30	8	10	0,075
		7625-12SM-1NI	M 18x1,5	17	24	24	24.5	38	21.5	31.5	9.5	12	0,081
		7625-16SM-1NI	M 22x1,5	24	27	30	27.5	43	24.5	32.5	9.5	16	0,221
		7625-20SM-1NI	M 27x2	27	32	36	32.5	48	26.5	40	12	20	0,377
S	315	7625-25SM-1NI	M 33x2	36	41	46	41.5	54	30.0	44	12	25	0,668
S	250	7625-30SM-1NI	M 42x2	41	50	50	50.5	62	35.5	48	12	30	1,168
S	200	7625-38SM-1NI	M 48x2	50	55	60	55.5	72	41.0	54	13	38	1,515

7240

Thread reducing coupling with Elastomeric sealing (Form E ISO 1179- 2)

Type	W.P. bar	Part number	Dimensions					Ø	Weight kg/unit
			Thread						
			F1	F2	CH	L	L1	D	
B	630	7240-0204NI	G 1/4	G 1/8	19	32	8.0	14	0,042
		7240-0206NI	G 3/8	G 1/8	24	32	8.0	14	0,068
		7240-0402NI	G 1/8	G 1/4	19	28	12.0	18	0,046
		7240-0406NI	G 3/8	G 1/4	24	36	12.0	18	0,073
		7240-0408NI	G 1/2	G 1/4	30	40	12.0	18	0,124
B	400	7240-0412NI	G 3/4	G 1/4	36	43	12.0	18	0,185
A	630	7240-0602NI	G 1/8	G 3/8	22	22,5	12.0	22	0,038
B	630	7240-0604NI	G 1/4	G 3/8	22	36	12.0	22	0,072
		7240-0608NI	G 1/2	G 3/8	30	41	12.0	22	0,132
B	400	7240-0612NI	G 3/4	G 3/8	36	44	12.0	22	0,191
A	630	7240-0802NI	G 1/8	G 1/2	27	24	14.0	26	0,065
		7240-0804NI	G 1/4	G 1/2	27	24	14.0	26	0,056
B	400	7240-0806NI	G 3/8	G 1/2	27	36	14.0	26	0,097
		7240-0812NI	G 3/4	G 1/2	36	46	14.0	26	0,194
		7240-0816NI	G 1	G 1/2	41	49	14.0	26	0,237
B	250	7240-0820NI	G 1 1/4	G 1/2	55	53	14.0	26	0,503
A	400	7240-1204NI	G 1/4	G 3/4	32	26	16.0	32	0,101
		7240-1206NI	G 3/8	G 3/4	32	26	16.0	32	0,085
B	400	7240-1208NI	G 1/2	G 3/4	32	41	16.0	32	0,150
		7240-1216NI	G 1	G 3/4	41	51	16.0	32	0,247

Thread reducing coupling with Elastomeric sealing (Form E ISO 1179- 2)

Type	W.P. bar	Part number	Dimensions						Weight kg/unit
			Thread					Ø	
			F1	F2	CH	L	L1	D	
B	250	7240-1220NI	G 1 1/4	G 3/4	55	55	16.0	32	0,514
		7240-1224NI	G 1 1/2	G 3/4	60	57	16.0	32	0,596
A	400	7240-1604NI	G 1/4	G 1	41	29	18.0	39	0,193
		7240-1606NI	G 3/8	G 1	41	29	18.0	39	0,178
		7240-1608NI	G 1/2	G 1	41	29	18.0	39	0,152
B	400	7240-1612NI	G 3/4	G 1	41	47	18.0	39	0,286
B	250	7240-1620NI	G 1 1/4	G 1	55	57	18.0	39	0,549
		7240-1624NI	G 1 1/2	G 1	60	59	18.0	39	0,626
A	250	7240-2008NI	G 1/2	G 1 1/4	50	32	20.0	49	0,309
		7240-2012NI	G 3/4	G 1 1/4	50	32	20.0	49	0,260
B	250	7240-2016NI	G 1	G 1 1/4	50	52	20.0	49	0,482
		7240-2024NI	G 1 1/2	G 1 1/4	60	60	20.0	49	0,659
A	250	7240-2408NI	G 1/2	G 1 1/2	55	36	22.0	55	0,467
		7240-2412NI	G 3/4	G 1 1/2	55	36	22.0	55	0,416
		7240-2416NI	G 1	G 1 1/2	55	36	22.0	55	0,336
B	250	7240-2420NI	G 1 1/4	G 1 1/2	55	58	22.0	55	0,553

7250

Female connector
BSPP thread
S

Type	W.P. bar	Part number	Dimensions						Weight kg/unit	
			Thread							Ø
			F	CH1	CH2	L1	L2	L3	tube mm	
L	315	7250-06LR-1NI	G 1/8	14	14	33.5	7	12	6	0,018
		7250-08LR06-1NI	G 3/8	24	17	40.0	10.5	14.5	8	0,062
		7250-08LR08-1NI	G 1/2	27	17	44.0	14.5	14.5	8	0,079
		7250-08LR-1NI	G 1/4	19	17	39.0	7	17	8	0,038
		7250-10LR06-1NI	G 3/8	24	19	41.0	11.5	14.5	10	0,062
		7250-10LR08-1NI	G 1/2	27	19	45.0	15.5	14.5	10	0,081
		7250-10LR-1NI	G 1/4	19	19	40.0	8	17	10	0,039
		7250-12LR08-1NI	G 1/2	27	22	45.0	15.5	14.5	12	0,084
		7250-12LR-1NI	G 3/8	24	22	40.5	9	17	12	0,062
		7250-15LR-1NI	G 1/2	27	27	46.0	11	20	15	0,086
		7250-18LR-1NI	G 1/2	27	32	47.0	10.5	20	18	0,089
L	160	7250-22LR-1NI	G 3/4	36	36	52.0	13.5	22	22	0,173
		7250-28LR-1NI	G 1	41	41	54.0	13	24.5	28	0,209
		7250-35LR-1NI	G 1 1/4	55	50	63.0	15	26.5	35	0,457
		7250-42LR-1NI	G 1 1/2	60	60	66.0	14.5	28.5	42	0,528
S	630	7250-06SR-1NI	G 1/4	19	17	41.0	9	17	6	0,042
		7250-08SR-1NI	G 1/4	19	19	41.0	9	17	8	0,044
		7250-10SR-1NI	G 3/8	24	22	42.5	9.5	17	10	0,069
		7250-12SR-1NI	G 3/8	24	24	42.5	9.5	17	12	0,071
		7250-14SR-1NI	G 1/2	30	27	50.0	12	20	14	0,094
S	400	7250-16SR-1NI	G 1/2	30	30	50.0	11.5	20	16	0,093
		7250-20SR-1NI	G 3/4	36	36	56.0	12.5	22	20	0,189
		7250-25SR-1NI	G 1	41	46	61.0	12.5	24.5	25	0,240
		7250-30SR-1NI	G 1 1/4	55	50	69.0	16	26.5	30	0,503
		S	315	7250-38SR-1NI	G 1 1/2	60	60	75.0	15.5	28.5

7250

Female connector Metric fine thread S

Type	W.P. bar	Part number	Dimensions						Weight kg/unit	
			Thread							Ø
			F	CH1	CH2	L1	L2	L3	tube mm	
L	315	7250-06LM-1NI	M 10x1	14	14	33.5	7	12	6	0,018
		7250-08LM-1NI	M 12x1,5	17	17	39.0	7	17	8	0,031
		7250-10LM-1NI	M 14x1,5	19	19	40.0	8	17	10	0,037
		7250-12LM-1NI	M 16x1,5	22	22	40.5	9	17	12	0,051
		7250-15LM-1NI	M 18x1,5	24	27	46.0	14	17	15	0,065
		7250-18LM-1NI	M 22x1,5	30	30	47.0	11.5	19	18	0,109
L	160	7250-22LM-1NI	M 26x1,5	32	36	51.0	13.5	21	22	0,121
S	630	7250-06SM-1NI	M 12x1,5	17	17	41.0	9	17	6	0,048
		7250-08SM-1NI	M 14x1,5	19	19	41.0	9	17	8	0,042
		7250-10SM-1NI	M 16x1,5	22	22	42.5	9.5	17	10	0,058
		7250-12SM-1NI	M 18x1,5	24	24	42.5	9.5	17	12	0,069
		7250-14SM-1NI	M 20x1,5	27	27	50.0	13	19	14	0,096
S	400	7250-16SM-1NI	M 22x1,5	30	30	50.0	12.5	19	16	0,115
		7250-20SM-1NI	M 27x2	36	36	56.0	12.5	22	20	0,186

7030

Gauge connector BSPP thread
(ISO 8434-1)
SGC

Type	W.P. bar	Part number	Dimensions							Weight kg/unit
			Thread						Ø	
			F	CH1	CH2	L1	L2	L3	tube mm	
L	315	7030-06L-1NI	G 1/4	19	14	37.0	14.5	4.5	6	0,037
		7030-08L-1NI	G 1/4	19	17	37.0	14.5	4.5	8	0,038
		7030-10L-1NI	G 1/4	19	19	38.0	14.5	4.5	10	0,039
		7030-12L-1NI	G 1/4	19	22	38.0	14.5	4.5	12	0,040
S	630	7030-06S-1NI	G 1/2	27	17	46.0	20	5	6	0,086
		7030-08S-1NI	G 1/2	27	19	46.0	20	5	8	0,090
		7030-10S-1NI	G 1/2	27	22	47.0	20	5	10	0,088
		7030-12S-1NI	G 1/2	27	24	47.0	20	5	12	0,090

Swivel gauge connector (ISO 8434-1) SWOGC

Type	W.P. bar	Part number	Dimensions						Weight kg/unit	
			Thread							Ø
			F	CH1	CH2	L1	L2	L3	tube mm	
L	315	7035-06LNI	G 1/4	19	14	37.5	23	4.6	6	0,048
		7035-08LNI	G 1/4	19	17	37.5	23	4.6	8	0,055
		7035-10LNI	G 1/4	19	19	36.0	21.5	4.6	10	0,058
		7035-12LNI	G 1/4	19	22	36.0	21.5	4.6	12	0,069
S	630	7035-06SNI	G 1/2	27	17	44.5	24.5	5.2	6	0,103
		7035-08SR04NI	G 1/4	19	19	35.5	21	4.6	8	0,073
		7035-08SNI	G 1/2	27	19	44.5	24.5	5.2	8	0,117
		7035-10SR04NI	G 1/4	19	22	39.0	24.5	4.6	10	0,087
		7035-10SNI	G 1/2	27	22	43.5	23.5	5.2	10	0,113
		7035-12SR04NI	G 1/4	19	24	40.0	24.5	4.6	12	0,102
		7035-12SNI	G 1/2	27	24	45.0	25	5.2	12	0,122

7260

Blanking plug for port
thread: BSPP
(Form E ISO 1179-2)
PLE

W.P. bar	Part number	Dimensions					Weight kg/unit
		CH1	D	F	L	L1	
400	7260-02NI	5	14	G 1/8	12	8.0	0,007
	7260-04NI	6	19	G 1/4	17	12.0	0,018
	7260-06NI	8	22	G 3/8	17	12.0	0,027
	7260-08NI	10	27	G 1/2	19	14.0	0,044
	7260-12NI	12	32	G 3/4	21	16.0	0,075
	7260-16NI	17	40	G 1	22.5	16.0	0,123
315	7260-20NI	22	50	G 1 1/4	22.5	20.0	0,272
	7260-24NI	24	55	G 1 1/2	22.5	22.0	0,375

**Blanking plug for port
thread: Metric fine
(Form E ISO 9974-2)
PLE**

W.P. bar	Part number	Dimensions					Weight kg/unit
		CH1	D	F	L	L1	
400	7260-10X10NI	5	14	M10x1	12	8.0	0,007
	7260-12X15NI	6	17	M12x1,5	17	12.0	0,014
	7260-14X15NI	6	19	M14x1,5	17	12.0	0,019
	7260-16X15NI	8	22	M16x1,5	17	12.0	0,024
	7260-18X15NI	8	24	M18x1,5	17	12.0	0,032
	7260-20X15NI	10	26	M20x1,5	19	14.0	0,040
	7260-22X15NI	10	27	M22x1,5	19	14.0	0,050
	7260-26X15NI	12	32	M26x1,5	21	16.0	0,074
	7260-27X20NI	12	32	M27x2	21	16.0	0,077
	7260-33X20NI	17	40	M33x2	22.5	16.0	0,124
315	7260-42X20NI	22	50	M42x2	22.5	16.0	0,186
	7260-48X20NI	24	55	M48x2	22.5	16.0	0,244

7270

Plug (ISO 8434-1)
PL

Type	W.P. bar	Part number	Dimensions					Weight kg/unit
							Ø	
			CH1	CH2	L	L1	tube D1 mm	
L	315	7270-06L-1NI	14	12	22	17.5	6	0,008
		7270-08L-1NI	17	14	23	18.5	8	0,012
		7270-10L-1NI	19	17	24	19.5	10	0,016
		7270-12L-1NI	22	19	25	10.5	12	0,022
		7270-15L-1NI	27	24	26	11.5	15	0,038
		7270-18L-1NI	32	27	28	11.5	18	0,054
L	160	7270-22L-1NI	36	32	30	13.5	22	0,077
		7270-28L-1NI	41	41	31	14.5	28	0,133
		7270-35L-1NI	50	46	36	14.5	35	0,201
		7270-42L-1NI	60	55	39	16.5	42	0,340
S	630	7270-06S-1NI	17	14	26	11.5	6	0,016
		7270-08S-1NI	19	17	28	13.5	8	0,026
		7270-10S-1NI	22	19	29	12.5	10	0,031
		7270-12S-1NI	24	22	31	14.5	12	0,045
		7270-14S-1NI	27	24	34	16.5	14	0,059
S	400	7270-16S-1NI	30	27	34	15.5	16	0,068
		7270-20S-1NI	36	32	39	17.5	20	0,120
		7270-25S-1NI	46	41	44	20.5	25	0,213
		7270-30S-1NI	50	46	47	20.5	30	0,281
S	315	7270-38S-1NI	60	55	54	23.5	38	0,498

Pipe plug with O-Ring seal (ISO 8434-1) PL

With sealing cone and O-Ring adaptable to the shape of the hole
W DIN 3861 / ISO 8434-1

Type	W.P. bar	Part number	Dimensions			Weight kg/unit
			A	L	Ø tube mm	
LS	315	7290-06LSNI	6	17	6	0,006
		7290-08LSNI	8	17	8	0,010
		7290-10LSNI	10	18.5	10	0,016
		7290-12LSNI	12	19.5	12	0,022
L	315	7290-15LNI	15	19.5	15	0,032
		7290-18LNI	18	21.5	18	0,051
		7290-22LNI	22	24	22	0,081
L	160	7290-28LNI	28	24.5	28	0,130
		7290-35LNI	35	28	35	0,240
		7290-42LNI	42	28	42	0,346
S	630	7290-14SNI	14	22.5	14	0,032
S	400	7290-16SNI	16	21.5	16	0,041
		7290-20SNI	20	27	20	0,080
		7290-25SNI	25	27.5	25	0,124
		7290-30SNI	30	29.5	30	0,182
S	315	7290-38SNI	38	31	38	0,315

7420

**Weld connector
(ISO 8434-1)
WDS**

Type	W.P. bar	Part number	Dimensions						Weight kg/unit
								Ø	
			A	CH1	CH2	L1	L2	tube mm	
L	315	7420-06L-1	10	12	14	29.0	14	6	0,010
		7420-08L-1	12	14	17	31.0	16	8	0,015
		7420-10L-1	14	17	19	33.0	18	10	0,021
		7420-12L-1	16	19	22	33.0	18	12	0,026
		7420-15L-1	19	22	27	37.0	22	15	0,043
		7420-18L-1	22	27	32	40.0	23.5	18	0,066
L	160	7420-22L-1	27	32	36	45.0	28.5	22	0,097
		7420-28L-1	32	41	41	47.0	30.5	28	0,159
		7420-35L-1	40	46	50	54.0	32.5	35	0,228
		7420-42L-1	46	55	60	58.0	35	42	0,328
S	630	7420-06S-1	11	14	17	34.0	19	6	0,021
		7420-08S-1	13	17	19	36.0	21	8	0,030
		7420-10S-1	15	19	22	39.0	22.5	10	0,040
		7420-12S-1	17	22	24	41.0	24.5	12	0,055
		7420-14S-1	19	24	27	45.0	27	14	0,070
S	400	7420-16S-1	21	27	30	45.0	26.5	16	0,083
		7420-20S-1	26	32	36	51.0	29.5	20	0,129
		7420-25S-1	31	41	46	56.0	32	25	0,222
		7420-30S-1	36	46	50	62.0	35.5	30	0,295
S	315	7420-38S-1	44	55	60	69.0	38	38	0,455

Welding straight bulkhead (ISO 8434-1) WDBHS

Type	W.P. bar	Part number	Dimensions					Weight kg/unit
							Ø	
			A	CH2	L1	L2	tube mm	
L	315	7120-06L-1	18	14	85.0	56	6	0,103
		7120-08L-1	20	17	85.0	56	8	0,121
		7120-10L-1	22	19	87.0	58	10	0,143
		7120-12L-1	25	22	87.0	58	12	0,177
		7120-15L-1	28	27	100.0	70	15	0,259
		7120-18L-1	32	32	101.0	69	18	0,334
L	160	7120-22L-1	36	36	105.0	73	22	0,400
		7120-28L-1	40	41	106.0	73	28	0,445
		7120-35L-1	50	50	114.0	71	35	0,723
		7120-42L-1	60	60	115.0	70	42	1,005
S	630	7120-06S-1	20	17	89.0	60	6	0,135
		7120-08S-1	22	19	89.0	60	8	0,162
		7120-10S-1	25	22	91.0	59	10	0,200
		7120-12S-1	28	24	91.0	59	12	0,250
		7120-14S-1	30	27	107.0	72	14	0,337
S	400	7120-16S-1	35	30	107.0	71	16	0,444
		7120-20S-1	38	36	114.0	71	20	0,515
		7120-25S-1	45	46	120.0	72	25	0,723
		7120-30S-1	50	50	126.0	73	30	0,873
S	315	7120-38S-1	60	60	133.0	72	38	1,251

7280

Welding nipple with O-ring seal WDNP

With sealing cone and O-Ring adaptable to the shape of the hole W
DIN 3861 / ISO 8434-1

W.P. bar	Part number	Dimensions		Weight kg/unit
			Ø	
		L1	tube mm	
400	7280-10X20	31.0	10	0,016
	7280-12X25	31.0	12	0,022
	7280-14X30	34.0	14	0,035
	7280-16X30	37.0	16	0,044
	7280-20X40	43.0	20	0,078
	7280-25X40	48.0	25	0,112
	7280-30X50	51.0	30	0,171
315	7280-38X50	55.0	38	0,245

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NPTF/METRIC

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1750

Metric Niple 60° Cone

S

Part number	Dimensions				Weight kg/unit
	F	L	L1	CH1	
1750-10-10	M 10x1	25	8	14	0.011
1750-12-12	M 12x1,5	29	12	17	0.019
1750-14-14	M 14x1,5	29	12	19	0.028
1750-16-16	M 16x1,5	33	12	22	0.037
1750-18-18	M 18x1,5	36	12	24	0.050
1750-20-20	M 20x1,5	38	14	27	0.067
1750-22-22	M 22x1,5	38	14	27	0.069
1750-24-24	M 24x1,5	41	14	30	0.092
1750-26-26	M 26x1,5	43	16	32	0.109
1750-30-30	M30x1,5	43	17	36	0.136

Reducing Metric Niple 60° Cone

S

Part number	Dimensions						Weight kg/unit
	F	F1	L	L1	L2	CH1	
1770-14-12	M 14x1,5	M 12x1,5	29	12	12	19	0.026
1770-16-14	M 16x1,5	M 14x1,5	31	12	12	22	0.033
1770-18-14	M 18x1,5	M 14x1,5	33	12	12	24	0.044
1770-18-16	M 18x1,5	M 16x1,5	35	12	12	24	0.047
1770-22-16	M 22x1,5	M 16x1,5	36	14	12	27	0.056
1770-22-18	M 22x1,5	M 18x1,5	37	14	12	27	0.060
1770-26-22	M 26x1,5	M 22x1,5	41	16	14	32	0.091

M105

Metric Female Union

S

Part number	Dimensions			Weight kg/unit
	F	L	CH1	
M105-10-10	M 10x1	25	14	0.014
M105-12-12	M 12x1,5	25	17	0.031
M105-14-14	M 14x1,5	35	19	0.026
M105-16-16	M 16x1,5	35	22	0.059
M105-18-18	M 18x1,5	45	24	0.101
M105-22-22	M 22x1,5	45	27	0.930

Male Metric/Female BSP
Connector

S

Part number	Dimensions							Weight kg/unit
	Ø							
	tube mm	tube inch	F	F1	L	L1	CH1	
1810-04-14	8	5/16"	M 14x1,5	G 1/4	28	10	19	0.042
1810-06-16	10	3/8"	M 16x1,5	G 3/8	33	11	22	0.055
1810-06-18	10	3/8"	M 18x1,5	G 3/8	34	11	24	0.058
1810-08-22	12	1/2"	M 22x1,5	G 1/2	37	12	27	0.071

1820

Male BSP/Female Metric
Connector

S

Part number	Dimensions							Weight kg/unit
	Ø							
	tube mm	tube inch	F	F1	L	L1	CH1	
1820-04-14	8	5/16"	G 1/4	M 14x1,5	27	11	17	0.042
1820-06-16	10	3/8"	G 3/8	M 16x1,5	33	12	22	0.055
1820-06-18	10	3/8"	G 3/8	M 18x1,5	33	12	24	0.058
1820-08-18	12	1/2"	G 1/2	M 18x1,5	35	14	27	0.065
1820-08-22	12	1/2"	G 1/2	M 22x1,5	36	14	27	0.071

Swivel Metric Plug

PL

Part number	Dimensions			Weight kg/unit
	F	L1	CH3	
M608-12	M 12x1,5	10.5	17	0.005
M608-14	M 14x1,5	12	19	0.008
M608-16	M 16x1,5	15	22	0.014
M608-18	M 18x1,5	15	24	0.018
M608-20	M 20x1,5	17	27	0.024
M608-22	M 22x1,5	17	27	0.028
M608-26	M 26x1,5	19	32	0.044

M605

Metric Plug

PL

Part number	Dimensions				Weight kg/unit
	F	L	L1	CH1	
M605-10	M 10x1	13	8	14	0.009
M605-12	M 12x1,5	17	10	17	0.016
M605-14	M 14x1,5	17	10	19	0.023
M605-16	M 16x1,5	18	11	22	0.030
M605-18	M 18x1,5	19	11	24	0.041
M605-20	M 20x1,5	22	14	27	0.055
M605-22	M 22x1,5	20	12	27	0.057
M605-24	M 24x1,5	22	14	30	0.075
M605-26	M 26x1,5	24	16	32	0.089

Male stud connector NPTF

S

Part number	Dimensions						Weight kg/unit
	Ø						
	tube mm	tube inch	F	L	L2	CH1	
1870-02-02	6	1/4"	1/8 NPTF	27	10	12	0.020
1870-04-04	8	5/16"	1/4 NPTF	35.5	14.5	15	0.033
1870-06-06	10	3/8"	3/8 NPTF	37.5	14.5	19	0.047
1870-08-08	12	1/2"	1/2 NPTF	48	19	22	0.085
1870-12-12	20	3/4"	3/4 NPTF	53	19.5	27	0.144
1870-16-16	25	1"	1 NPTF	63	24	36	0.270
1870-20-20	32	1.1/4"	1 1/4 NPTF	68	24.5	46	0.401
1870-24-24	38	1.1/2"	1 1/2 NPTF	71	25.5	50	0.477
1870-32-32	50	2"	2 NPTF	74.5	26	65	0.898

N105

Metric Female Union NPTF

S

Part number	Dimensions				Weight kg/unit
	F	L	L1	CH1	
N105-02-02	1/8 NPTF	19	6.5	16	0.019
N105-04-04	1/4 NPTF	29	11	19	0.045
N105-06-06	3/8 NPTF	29	11	22	0.062
N105-08-08	1/2 NPTF	38	14	30	0.112
N105-12-12	3/4 NPTF	39	14	36	0.156
N105-16-16	1 NPTF	48	17.5	41	0.289
N105-20-20	1 1/4 NPTF	49	17.5	50	0.340
N105-24-24	1 1/2 NPTF	49	17.5	60	0.531

90° Male stud Elbow NPTF

E

Part number	Dimensions					Weight kg/unit
	Ø					
	tube mm	tube inch	F	L	CH1	
4690-02	6	1/4"	1/8 NPTF	19.5	12	0.015
4690-04	8	5/16"	1/4 NPTF	27.5	14	0.042
4690-06	10	3/8"	3/8 NPTF	31	19	0.093
4690-08	12	1/2"	1/2 NPTF	36	22	0.142
4690-12	20	3/4"	3/4 NPTF	40.5	27	0.231

4695

90° Female/Male Elbow NPTF

SDE

Part number	Dimensions							Weight kg/unit
	Ø							
	tube mm	tube inch	F	F1	L	L1	CH1	
4695-02	6	1/4"	1/8 NPTF	1/8 NPTF	23.5	17	14	0.048
4695-04	8	5/16"	1/4 NPTF	1/4 NPTF	29	22.5	19	0.065
4695-06	10	3/8"	3/8 NPTF	3/8 NPTF	33.5	26	22	0.008
4695-08	12	1/2"	1/2 NPTF	1/2 NPTF	38	31	27	0.147
4695-12	20	3/4"	3/4 NPTF	3/4 NPTF	45	34.5	33	0.210
4695-16	25	1"	1 NPTF	1 NPTF	55	41	41	0.402
4695-20	32	1.1/4"	1 1/4 NPTF	1 1/4 NPTF	63	43	50	0.655

90° Female Union Elbow NPTF

E

Part number	Dimensions					Weight kg/unit
	Ø					
	tube mm	tube inch	F	L1	CH1	
4580-02	6	1/4"	1/8 NPTF	17	14	0.060
4580-04	8	5/16"	1/4 NPTF	22.5	19	0.081
4580-06	10	3/8"	3/8 NPTF	26	22	0.010
4580-08	12	1/2"	1/2 NPTF	31	27	0.184
4580-12	20	3/4"	3/4 NPTF	34.5	33	0.263
4580-16	25	1"	1 NPTF	41	41	0.502
4580-20	32	1.1/4"	1 1/4 NPTF	43	50	0.663

4830

Female Union Cross NPTF

T

Part number	Dimensions					Weight kg/unit
	Ø					
	tube mm	tube inch	F	L1	CH1	
4830-02	6	1/4"	1/8 NPTF	17	14	0.080
4830-04	8	5/16"	1/4 NPTF	22.5	19	0.108
4830-06	10	3/8"	3/8 NPTF	26	22	0.013
4830-08	12	1/2"	1/2 NPTF	31	27	0.245
4830-12	20	3/4"	3/4 NPTF	34.5	33	0.351
4830-16	25	1"	1 NPTF	41	41	0.669
4830-20	32	1.1/4"	1 1/4 NPTF	43	50	0.884

Female Union Tee NPTF

K

Part number	Dimensions					Weight kg/unit
	Ø					
	tube mm	tube inch	F	L1	CH1	
4920-02	6	1/4"	1/8 NPTF	17	14	0.100
4920-04	8	5/16"	1/4 NPTF	22.5	19	0.135
4920-06	10	3/8"	3/8 NPTF	26	22	0.017
4920-08	12	1/2"	1/2 NPTF	31	27	0.307

1500

Weldable Metric Banjo Eye

Part number	Dimensions					Weight kg/unit
	D	L	H	S	Q	
1500-08-05	8	15	8	14	5	0.006
1500-10-06	10.5	19	10.5	17	6	0.009
1500-12-08	12	22	12	20	8	0.015
1500-14-10	14	24	14	24	10	0.021
1500-16-10	16	28	18	28	10	0.038
1500-16-12	16	28	17	28	12	0.036
1500-18-12	18	30	20	32	12	0.055
1500-18-14	18	29	18	32	14	0.056
1500-22-16	22	34	22	35	16	0.057
1500-22-18	22	32	22	35	18	0.054
1500-26-22	26	40	29	45	22	0.111

Metric threaded Banjo Eye

Part number	Dimensions				Weight kg/unit
	F1	D	L	S	
1570-14-14	M 14x1,5	14	25	24	0.027
1570-18-18	M 18x1,5	18	30	32	0.067
1570-22-22	M 22x1,5	22	32	35	0.081

1580

Metric threaded Banjo Eye
24° Cone

Part number		Dimensions					Weight kg/unit
	Ø						
	tube mm	F	D	L	H	S	
1580-06-18	12	M 18x1,5	3/8"	29	17	28	0.044
1580-08-18	12	M 18x1,5	1/2"	33.5	22	36	0.086
1580-08-22	15	M 22x1,5	1/2"	32.5	22	36	0.091

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