

TECHNICAL CATALOGUE

Tubing, Flanges & Pipe Fittings

Product specifications, dimensions and ordering configurations

28 October 2026

Product families: 47

Product, pattern & size references: 452

B-BBEE: Level 2

Select the product and exact configuration for the operating duty. The tables in this catalogue apply to the exact item, material, size and standard shown. Working, burst and test pressures are different quantities. Similar ordering references do not establish compatibility.

Application-specific assemblies, custom machining and configured equipment receive their final agreed specification with the quotation.

Request a quotation

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Provide the part code, size, quantity, required configuration and application. Include a drawing or photograph where available.

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Tubing, Flanges & Pipe Fittings

Hydraulic tube systems, stainless steel flanges and pipe fittings for engineered installations.

001 / ST - Hydraulic Steel Tubing

Hydraulic tube connections and installation components selected to the specified interface.

Size configurations: 6×1 / 6×1.5 / 6×2 / 8×1 / 8×1.5 / 8×2 / 10×1 / 10×1.5 / 12×1 / 12×1.5 / 12×2 / 14×2 / 15×1 / 15×1.5 / 16×1.5 / 16×2 / 18×1.5 / 18×2 / 20×1.5 / 20×2 / 20×2.5 / 22×1.5 / 22×2 / 25×2 / 25×2.5 / 25×3 / 28×2 / 28×3 / 30×2.5 / 30×3 / 35×3 / 38×3 / 38×4 / 42×3

Precision hydraulic steel tube sizes

Size reference	Outside diameter (mm)	Wall thickness (mm)	Listed working pressure (bar)
6×1	6	1	389
6×1.5	6	1.5	549
6×2	6	2	692
8×1	8	1	333
8×1.5	8	1.5	431
8×2	8	2	549
10×1	10	1	282
10×1.5	10	1.5	373
12×1	12	1	235
12×1.5	12	1.5	353
12×2	12	2	409
14×2	14	2	403
15×1	15	1	188
15×1.5	15	1.5	282
16×1.5	16	1.5	264

Precision hydraulic steel tube sizes

Size reference	Outside diameter (mm)	Wall thickness (mm)	Listed working pressure (bar)
16×2	16	2	353
18×1.5	18	1.5	196
18×2	18	2	313
20×1.5	20	1.5	194
20×2	20	2	282
20×2.5	20	2.5	353
22×1.5	22	1.5	192
22×2	22	2	256
25×2	25	2	276
25×2.5	25	2.5	282
25×3	25	3	338
28×2	28	2	201
28×3	28	3	302
30×2.5	30	2.5	235
30×3	30	3	282
35×3	35	3	242
38×3	38	3	223
38×4	38	4	297
42×3	42	3	201

Choose the tube outside diameter and wall thickness together. Material reference: DIN 2391 / ST 37.4. Listed pressures are specific to the stated size; the pressure calculation and temperature basis are not provided. Confirm suitability for the system design and required material certification.

Precision hydraulic steel tube sizes - construction & conditions

Parameter	Specification
Material reference	DIN2391 / ST37.4

Choose the tube outside diameter and wall thickness together. Material reference: DIN 2391 / ST 37.4. Listed pressures are specific to the stated size; the pressure calculation and temperature basis are not provided. Confirm suitability for the system design and required material certification.

Application & quotation checklist

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

002 / Bundy Tubing - Imperial

Hydraulic tube connections and installation components selected to the specified interface.

Ordering references: BUNDY-03 / BUNDY-04 / BUNDY-06 / BUNDY-08

Brake-tube exact codes

Part code	Outside diameter (mm)	Wall thickness (mm)	Listed working pressure (bar)
BUNDY-03	4.76	0.7	299
BUNDY-04	6.35	0.71	239
BUNDY-06	9.53	0.89	220
BUNDY-08	12.7	1.0	190

Exact brake-tube codes with outside diameter, wall thickness and listed pressure. Material reference: DIN 74234-B 6 / RST 34.2. Confirm the pressure and temperature basis, end connection and application requirements; dimensions alone do not establish brake-system approval.

Brake-tube exact codes - construction & conditions

Parameter	Specification
Material reference	DIN74234-B6 / RST34.2

Exact brake-tube codes with outside diameter, wall thickness and listed pressure. Material reference: DIN 74234-B 6 / RST 34.2. Confirm the pressure and temperature basis, end connection and application requirements; dimensions alone do not establish brake-system approval.

Application & quotation checklist

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

003 / Bundy Tubing - Metric

Hydraulic tube connections and installation components selected to the specified interface.

Ordering references: BUNDY-06M / BUNDY-08M / BUNDY-10M / BUNDY-12M

Brake-tube exact codes

Part code	Outside diameter (mm)	Wall thickness (mm)	Listed working pressure (bar)
BUNDY-06M	6.0	0.7	253
BUNDY-08M	8.0	0.7	190
BUNDY-10M	10.0	1.0	236
BUNDY-12M	12.0	1.0	196

Exact brake-tube codes with outside diameter, wall thickness and listed pressure. Material reference: DIN 74234-B 6 / RST 34.2. Confirm the pressure and temperature basis, end connection and application requirements; dimensions alone do not establish brake-system approval.

Brake-tube exact codes - construction & conditions

Parameter	Specification
Material reference	DIN74234-B6 / RST34.2

Exact brake-tube codes with outside diameter, wall thickness and listed pressure. Material reference: DIN 74234-B 6 / RST 34.2. Confirm the pressure and temperature basis, end connection and application requirements; dimensions alone do not establish brake-system approval.

Application & quotation checklist

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

004 / D - Cutting Ring

Hydraulic tube connections and installation components selected to the specified interface.

Ordering references: D04LL / D06L/S / D08L/S / D10L/S / D12L/S / D14S / D15L / D16S / D18L / D20S / D22L / D25S / D28L / D30S / D35L / D38S / D42L

D - Cutting Ring

Part code	Mass per 100 pieces (kg/100 pieces)	DIN series label	Listed pressure (bar)	Tube outside diameter (mm)
D04LL	Confirm	LL	Confirm	4
D06L/S	Confirm	L/S	Confirm	6
D08L/S	Confirm	L/S	Confirm	8
D10L/S	Confirm	L/S	Confirm	10
D12L/S	Confirm	L/S	Confirm	12
D14S	0.36	S	630.0	14
D15L	0.41	L	315.0	15
D16S	0.41	S	400.0	16
D18L	0.46	L	315.0	18
D20S	0.85	S	400.0	20
D22L	0.6	L	160.0	22
D25S	1.06	S	400.0	25
D28L	0.75	L	160.0	28
D30S	1.6	S	400.0	30
D35L	1.6	L	160.0	35
D38S	2.0	S	315.0	38
D42L	2.1	L	160.0	42

Exact tube-fitting selections by tube outside diameter, series and the connection dimensions shown. Use the exact tube outside diameter, series and stated threads together. Listed pressure is specific to the row; material, seal compound, temperature basis, assembly requirements and installation dimensions require confirmation. Missing values are not inferred from a DIN series or similar part number.

Application & quotation checklist

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

005 / M - Nut

Hydraulic tube connections and installation components selected to the specified interface.

Ordering references: M04LL / M06L / M06LL / M06S / M08L / M08S / M10L / M10S / M12L / M12S / M14S / M15L / M16S / M18L / M20S / M22L / M25S / M28L / M30S / M35L / M38S / M42L

M - Nut

Part code	Tube-end thread T1 (metric diameter × pitch (mm))	Mass per100 pieces (kg/100 pieces)	DIN series label	Listed pressure (bar)	Tube outside diameter (mm)
M04LL	Confirm	Confirm	LL	Confirm	4
M06L	12×1.5	0.9	L	315.0	6
M06LL	Confirm	Confirm	LL	Confirm	6
M06S	14×1.5	1.4	S	630.0	6
M08L	14×1.5	1.2	L	315.0	8
M08S	16×1.5	1.6	S	630.0	8
M10L	16×1.5	2.1	L	315.0	10
M10S	18×1.5	3.1	S	630.0	10
M12L	18×1.5	2.4	L	315.0	12
M12S	20×1.5	3.6	S	630.0	12
M14S	22×1.5	5.1	S	630.0	14
M15L	22×1.5	3.9	L	315.0	15
M16S	24×1.5	6.1	S	400.0	16
M18L	26×1.5	5.9	L	315.0	18
M20S	30×2	9.4	S	400.0	20
M22L	30×2	7.9	L	160.0	22
M25S	36×2	19.5	S	400.0	25
M28L	36×2	8.4	L	160.0	28

M - Nut

Part code	Tube-end thread T1 (metric diameter × pitch (mm))	Mass per100 pieces (kg/100 pieces)	DIN series label	Listed pressure (bar)	Tube outside diameter (mm)
M30S	42×2	21.5	S	400.0	30
M35L	45×2	12.9	L	160.0	35
M38S	52×2	31.0	S	315.0	38
M42L	52×2	20.9	L	160.0	42

Exact tube-fitting selections by tube outside diameter, series and the connection dimensions shown. Use the exact tube outside diameter, series and stated threads together. Listed pressure is specific to the row; material, seal compound, temperature basis, assembly requirements and installation dimensions require confirmation. Missing values are not inferred from a DIN series or similar part number.

Application & quotation checklist

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

006 / G - STRAIGHT UNION COUPLING

Hydraulic tube connections and installation components selected to the specified interface.

Ordering references: G04LL / G06L / G06LL / G06S / G08L / G08LL / G08S / G10L / G10S / G12L / G12S / G14S / G15L / G16S / G18L / G20S / G22L / G25S / G28L / G30S / G35L / G38S / G42L

DIN compression union exact codes

Part code	Tube outside diameter (mm)	DIN series	Thread T1 (metric designation)	Thread T2 (metric designation)	pressure column (bar)	Mass per100 pieces (kg/100)
G04LL	4	LL	Confirm	Confirm	Confirm	Confirm
G06LL	6	LL	Confirm	Confirm	315	0.9
G08LL	8	LL	Confirm	Confirm	315	1.2
G06L	6	L	12×1.5	12×1.5	315	2.1
G08L	8	L	14×1.5	14×1.5	315	2.4
G10L	10	L	16×1.5	16×1.5	315	3.9
G12L	12	L	18×1.5	18×1.5	315	5.9

DIN compression union exact codes

Part code	Tube outside diameter (mm)	DIN series	Thread T1 (metric designation)	Thread T2 (metric designation)	pressure column (bar)	Mass per100 pieces (kg/100)
G15L	15	L	22×1.5	22×1.5	160	7.9
G18L	18	L	26×1.5	26×1.5	160	8.4
G22L	22	L	30×2	30×2	160	12.9
G28L	28	L	36×2	36×2	160	20.9
G35L	35	L	45×2	45×2	Confirm	Confirm
G42L	42	L	52×2	52×2	Confirm	Confirm
G06S	6	S	14×1.5	14×1.5	400	9.4
G08S	8	S	16×1.5	16×1.5	400	19.5
G10S	10	S	18×1.5	18×1.5	400	21.5
G12S	12	S	20×1.5	20×1.5	315	31.0
G14S	14	S	22×1.5	22×1.5	Confirm	Confirm
G16S	16	S	24×1.5	24×1.5	Confirm	Confirm
G20S	20	S	30×2	30×2	Confirm	Confirm
G25S	25	S	36×2	36×2	Confirm	Confirm
G30S	30	S	42×2	42×2	Confirm	Confirm
G38S	38	S	52×2	52×2	Confirm	Confirm

Metric tube connection selections by tube outside diameter, series and stated thread. Use the exact tube diameter, L/S series and thread together. Missing pressures, masses or dimensions require confirmation; do not infer a rating from thread size alone. Body material, seals and full outline dimensions must match the application.

DIN compression union exact codes - construction & conditions

Parameter	Specification
System reference	DIN2353

Metric tube connection selections by tube outside diameter, series and stated thread. Use the exact tube diameter, L/S series and thread together. Missing pressures, masses or dimensions require confirmation; do not infer a rating from thread size alone. Body material, seals and full outline dimensions must match the application.

Application & quotation checklist

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

007 / T - METRIC MALE TEE

Hydraulic tube connections and installation components selected to the specified interface.

Ordering references: T06L / T06S / T08L / T08S / T10L / T10S / T12L / T12S / T14S / T15L / T16S / T18L / T20S / T22L / T25S / T28L / T30S / T35L / T38S / T42L

DIN equal-tee exact codes

Part code	Tube outside diameter (mm)	DIN series	Thread T1 (metric designation)	pressure column (bar)	Mass per100 pieces (kg/100)
T06L	6	L	12×1.5	315	6.3
T08L	8	L	14×1.5	315	8.5
T10L	10	L	16×1.5	315	11.5
T12L	12	L	18×1.5	315	15.0
T15L	15	L	22×1.5	315	24.5
T18L	18	L	26×1.5	315	35.8
T22L	22	L	30×2	160	47.9
T28L	28	L	36×2	160	74.5
T35L	35	L	45×2	160	100
T42L	42	L	52×2	160	150
T06S	6	S	14×1.5	630	11
T08S	8	S	16×1.5	630	14.2
T10S	10	S	18×1.5	630	19.1
T12S	12	S	20×1.5	630	24.3

DIN equal-tee exact codes

Part code	Tube outside diameter (mm)	DIN series	Thread T1 (metric designation)	pressure column (bar)	Mass per100 pieces (kg/100)
T14S	14	S	22×1.5	630	30.2
T16S	16	S	24×1.5	400	39.8
T20S	20	S	30×2	400	60
T25S	25	S	36×2	400	112
T30S	30	S	42×2	400	146
T38S	38	S	52×2	315	206

Metric tube connection selections by tube outside diameter, series and stated thread. Use the exact tube diameter, L/S series and thread together. Missing pressures, masses or dimensions require confirmation; do not infer a rating from thread size alone. Body material, seals and full outline dimensions must match the application.

Application & quotation checklist

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

008 / W - METRIC MALE ELBOW

Hydraulic tube connections and installation components selected to the specified interface.

Ordering references: W04LL / W06L / W06S / W08L / W08S / W10L / W10S / W12L / W12S / W15L / W16S / W18L / W20S / W22L / W25S / W28L / W30S / W35L / W38S / W42L

W - METRIC MALE ELBOW

Part code	Fitting angle (degrees)	Tube-end thread T1 (metric diameter × pitch (mm))	Second fitting thread T2 (metric diameter × pitch (mm))	Mass per100 pieces (kg/100 pieces)	DIN series label	Listed pressure (bar)	Tube outside diameter (mm)
W04LL	90	Confirm	Confirm	Confirm	LL	Confirm	4
W06L	90	12×1.5	12×1.5	4.2	L	315.0	6
W06S	90	14×1.5	14×1.5	7.1	S	630.0	6
W08L	90	14×1.5	14×1.5	5.8	L	315.0	8
W08S	90	16×1.5	16×1.5	8.1	S	630.0	8

W - METRIC MALE ELBOW

Part code	Fitting angle (degrees)	Tube-end thread T1 (metric diameter × pitch (mm))	Second fitting thread T2 (metric diameter × pitch (mm))	Mass per100 pieces (kg/100 pieces)	DIN series label	Listed pressure (bar)	Tube outside diameter (mm)
W10L	90	16×1.5	16×1.5	7.7	L	315.0	10
W10S	90	18×1.5	18×1.5	12.9	S	630.0	10
W12L	90	18×1.5	18×1.5	9.8	L	315.0	12
W12S	90	20×1.5	20×1.5	15.0	S	630.0	12
W15L	90	22×1.5	22×1.5	16.0	L	315.0	15
W16S	90	24×1.5	24×1.5	26.0	S	400.0	16
W18L	90	26×1.5	26×1.5	24.0	L	315.0	18
W20S	90	30×2	30×2	42.0	S	400.0	20
W22L	90	30×2	30×2	32.0	L	160.0	22
W25S	90	36×2	36×2	78.0	S	400.0	25
W28L	90	36×2	36×2	42.4	L	160.0	28
W30S	90	42×2	42×2	99.0	S	400.0	30
W35L	90	45×2	45×2	76.5	L	160.0	35
W38S	90	52×2	52×2	133.0	S	315.0	38
W42L	90	52×2	52×2	109.0	L	160.0	42

Exact tube-fitting selections by tube outside diameter, series and the connection dimensions shown. Use the exact tube outside diameter, series and stated threads together. Listed pressure is specific to the row; material, seal compound, temperature basis, assembly requirements and installation dimensions require confirmation. Missing values are not inferred from a DIN series or similar part number.

Application & quotation checklist

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

009 / Metric Reducing Union Couplings

Metric Reducing Union Couplings configurations selected for the operating duty and connection.

Application: Hydraulic tube connections and installation components selected to the specified interface.

Ordering references: GR10/08LGR / GR12/10LGR / GR15/12LGR / GR16/12SGR / GR18/15LGR / GR20/12SGR / GR22/15LGR / GR22/18LGR

Metric Reducing Union Couplings / column group 1 of 2

Part code	Tube-end thread T1 (metric diameter × pitch (mm))	Second fitting thread T2 (metric diameter × pitch (mm))	Mass per100 pieces (kg/100 pieces)	Second tube outside diameter (mm)	DIN series label	Listed pressure (bar)
GR10/08LGR	16×1.5	14×1.5	6.0	8	L	315.0
GR12/10LGR	Confirm	16×1.5	7.9	10	L	315.0
GR15/12LGR	22×1.5	18×1.5	11.4	12	L	315.0
GR16/12SGR	24×1.5	20×1.5	17.3	12	S	400.0
GR18/15LGR	26×1.5	22×1.5	17.0	15	L	315.0
GR20/12SGR	30×2	20×1.5	23.3	12	S	400.0
GR22/15LGR	30×2	22×1.5	20.3	15	L	160.0
GR22/18LGR	30×2	26×1.5	26.0	18	L	160.0

Identifying columns are repeated. Read all column groups together for the complete row specification.

Metric Reducing Union Couplings / column group 2 of 2

Part code	Tube outside diameter (mm)
GR10/08LGR	10
GR12/10LGR	12
GR15/12LGR	15
GR16/12SGR	16
GR18/15LGR	18
GR20/12SGR	20
GR22/15LGR	22
GR22/18LGR	22

Identifying columns are repeated. Read all column groups together for the complete row specification.

Exact tube-fitting selections by tube outside diameter, series and the connection dimensions shown. Use the exact tube outside diameter, series and stated threads together. Listed pressure is specific to the row; material, seal compound, temperature basis, assembly requirements and installation dimensions require confirmation. Missing values are not inferred from a DIN series or similar part number. Some connection fields are awaiting a corrected dimensional drawing and are omitted; confirm the exact connection before ordering.

Application & quotation checklist

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

010 / SV - BULKHEAD STRAIGHT

Hydraulic tube connections and installation components selected to the specified interface.

Ordering references: SV06L / SV06S / SV08L / SV08S / SV10L / SV10S / SV12L / SV12S / SV15L / SV16S / SV18L / SV20S / SV22L / SV25S / SV38S

SV - BULKHEAD STRAIGHT

Part code	Tube-end thread T1 (metric diameter × pitch (mm))	Second fitting thread T2 (metric diameter × pitch (mm))	Mass per100 pieces (kg/100 pieces)	DIN series label	Listed pressure (bar)	Tube outside diameter (mm)
SV06L	12×1.5	12×1.5	7.0	L	315.0	6
SV06S	14×1.5	14×1.5	10.0	S	630.0	6
SV08L	14×1.5	14×1.5	8.5	L	315.0	8
SV08S	16×1.5	16×1.5	13.0	S	630.0	8
SV10L	16×1.5	16×1.5	12.7	L	315.0	10
SV10S	18×1.5	18×1.5	19.0	S	630.0	10
SV12L	18×1.5	18×1.5	15.0	L	315.0	12
SV12S	20×1.5	20×1.5	22.0	S	630.0	12
SV15L	22×1.5	22×1.5	23.0	L	315.0	15
SV16S	24×1.5	24×1.5	32.0	S	400.0	16
SV18L	26×1.5	26×1.5	33.0	L	315.0	18
SV20S	30×2	30×2	55.0	S	400.0	20

SV - BULKHEAD STRAIGHT

Part code	Tube-end thread T1 (metric diameter × pitch (mm))	Second fitting thread T2 (metric diameter × pitch (mm))	Mass per100 pieces (kg/100 pieces)	DIN series label	Listed pressure (bar)	Tube outside diameter (mm)
SV22L	30×2	30×2	41.0	L	160.0	22
SV25S	36×2	36×2	91.0	S	400.0	25
SV38S	52×2	52×2	Confirm	S	315.0	38

Exact tube-fitting selections by tube outside diameter, series and the connection dimensions shown. Use the exact tube outside diameter, series and stated threads together. Listed pressure is specific to the row; material, seal compound, temperature basis, assembly requirements and installation dimensions require confirmation. Missing values are not inferred from a DIN series or similar part number.

Application & quotation checklist

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

011 / WSV - BULKHEAD ELBOW

Hydraulic tube connections and installation components selected to the specified interface.

Ordering references: WSV06L / WSV08L / WSV08S / WSV10L / WSV10S / WSV12L / WSV12S / WSV15L / WSV16S / WSV18L / WSV22L

WSV - BULKHEAD ELBOW

Part code	Fitting angle (degrees)	Tube-end thread T1 (metric diameter × pitch (mm))	Second fitting thread T2 (metric diameter × pitch (mm))	Mass per100 pieces (kg/100 pieces)	DIN series label	Listed pressure (bar)	Tube outside diameter (mm)
WSV06L	90	12×1.5	12×1.5	7.0	L	315.0	6
WSV08L	90	14×1.5	14×1.5	10.0	L	315.0	8
WSV08S	90	16×1.5	16×1.5	13.0	S	630.0	8
WSV10L	90	16×1.5	16×1.5	13.0	L	315.0	10
WSV10S	90	18×1.5	18×1.5	20.0	S	630.0	10
WSV12L	90	18×1.5	18×1.5	19.0	L	315.0	12
WSV12S	90	20×1.5	20×1.5	24.0	S	630.0	12
WSV15L	90	22×1.5	22×1.5	28.0	L	315.0	15

WSV - BULKHEAD ELBOW

Part code	Fitting angle (degrees)	Tube-end thread T1 (metric diameter × pitch (mm))	Second fitting thread T2 (metric diameter × pitch (mm))	Mass per100 pieces (kg/100 pieces)	DIN series label	Listed pressure (bar)	Tube outside diameter (mm)
WSV16S	90	24×1.5	24×1.5	37.0	S	400.0	16
WSV18L	90	26×1.5	26×1.5	38.0	L	315.0	18
WSV22L	90	30×2	30×2	49.0	L	160.0	22

Exact tube-fitting selections by tube outside diameter, series and the connection dimensions shown. Use the exact tube outside diameter, series and stated threads together. Listed pressure is specific to the row; material, seal compound, temperature basis, assembly requirements and installation dimensions require confirmation. Missing values are not inferred from a DIN series or similar part number.

Application & quotation checklist

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

012 / EVGE-ED - BSPP STRAIGHT STUD STAND PIPE

Hydraulic tube connections and installation components selected to the specified interface.

Ordering references: EVGE06LRED / EVGE06SRED / EVGE08LRED / EVGE08SRED / EVGE10LRED / EVGE10SRED / EVGE12LRED / EVGE12SRED / EVGE15LRED / EVGE16SRED / EVGE18LRED / EVGE20SRED / EVGE22LRED / EVGE25SRED / EVGE28LRED

EVGE-ED - BSPP STRAIGHT STUD STAND PIPE / column group 1 of 2

Part code	Tube-end thread T1 (metric diameter × pitch (mm))	Mass per100 pieces (kg/100 pieces)	Port thread family	Port thread T2 (in)	Seal form	DIN series label	Listed pressure (bar)
EVGE06LRED	12×1.5	2.5	BSPP	1/8	ED; compound unspecified	L	315.0
EVGE06SRED	14×1.5	4.5	BSPP	1/4	ED; compound unspecified	S	630.0
EVGE08LRED	14×1.5	4.3	BSPP	1/4	ED; compound unspecified	L	315.0
EVGE08SRED	16×1.5	5.0	BSPP	1/4	ED; compound unspecified	S	630.0
EVGE10LRED	16×1.5	4.8	BSPP	1/4	ED; compound unspecified	L	315.0
EVGE10SRED	18×1.5	7.5	BSPP	3/8	ED; compound unspecified	S	630.0
EVGE12LRED	18×1.5	6.9	BSPP	3/8	ED; compound unspecified	L	315.0

EVGE-ED - BSPP STRAIGHT STUD STAND PIPE / column group 1 of 2

Part code	Tube-end thread T1 (metric diameter x pitch (mm))	Mass per100 pieces (kg/100 pieces)	Port thread family	Port thread T2 (in)	Seal form	DIN series label	Listed pressure (bar)
EVGE12SRED	20×1.5	8.2	BSPP	3/8	ED; compound unspecified	S	630.0
EVGE15LRED	22×1.5	12.0	BSPP	1/2	ED; compound unspecified	L	315.0
EVGE16SRED	24×1.5	14.5	BSPP	1/2	ED; compound unspecified	S	400.0
EVGE18LRED	26×1.5	13.5	BSPP	1/2	ED; compound unspecified	L	315.0
EVGE20SRED	30×2	22.0	BSPP	3/4	ED; compound unspecified	S	400.0
EVGE22LRED	30×2	19.5	BSPP	3/4	ED; compound unspecified	L	160.0
EVGE25SRED	36×2	40.0	BSPP	1	ED; compound unspecified	S	400.0
EVGE28LRED	36×2	Confirm	BSPP	1	ED; compound unspecified	L	100

Identifying columns are repeated. Read all column groups together for the complete row specification.

EVGE-ED - BSPP STRAIGHT STUD STAND PIPE / column group 2 of 2

Part code	Tube outside diameter (mm)
EVGE06LRED	6
EVGE06SRED	6
EVGE08LRED	8
EVGE08SRED	8
EVGE10LRED	10
EVGE10SRED	10
EVGE12LRED	12
EVGE12SRED	12
EVGE15LRED	15
EVGE16SRED	16

EVGE-ED - BSPP STRAIGHT STUD STAND PIPE / column group 2 of 2

Part code	Tube outside diameter (mm)
EVGE18LRED	18
EVGE20SRED	20
EVGE22LRED	22
EVGE25SRED	25
EVGE28LRED	28

Identifying columns are repeated. Read all column groups together for the complete row specification.

Exact tube-fitting selections by tube outside diameter, series and the connection dimensions shown. Use the exact tube outside diameter, series and stated threads together. Listed pressure is specific to the row; material, seal compound, temperature basis, assembly requirements and installation dimensions require confirmation. Missing values are not inferred from a DIN series or similar part number.

Application & quotation checklist

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

013 / GE-M/MED - METRIC STRAIGHT MALE STUD COUPLER

Hydraulic tube connections and installation components selected to the specified interface.

Ordering references: GE06LMED / GE08LM / GE08LM14X1.5 / GE08LM16X1.5 / GE08LM18X1.5 / GE08LM22X1.5 / GE08LMED / GE10LM / GE10LM12X1.5 / GE10LM16X1.5 / GE10LM18X1.5 / GE10LM22X1.5 / GE10LMED / GE10LMED16X1.5 / GE12LM / GE12LM14X1.5 / GE12LM18X1.5 / GE12LM22X1.5 / GE12LMED / GE15LM / GE15LM16X1.5 / GE15LM22X1.5 / GE16SM / GE18LM22X1.5

GE-M/MED - METRIC STRAIGHT MALE STUD COUPLER / column group 1 of 2

Part code	Tube-end thread T1 (metric diameter × pitch (mm))	Mass per100 pieces (kg/100 pieces)	Port thread family	Port thread T2 (metric diameter × pitch (mm))	Seal form	DIN series label	Listed pressure (bar)
GE06LMED	Confirm	Confirm	metric parallel	Confirm	ED; compound unspecified	L	Confirm
GE08LM	14×1.5	4.5	metric parallel	12×1.5	Confirm	L	315.0
GE08LM14X1.5	14×1.5	5.5	metric parallel	14×1.5	Confirm	L	315.0
GE08LM16X1.5	14×1.5	5.8	metric parallel	16×1.5	Confirm	L	315.0
GE08LM18X1.5	14×1.5	6.7	metric parallel	18×1.5	Confirm	L	315.0

GE-M/MED - METRIC STRAIGHT MALE STUD COUPLER / column group 1 of 2

Part code	Tube-end thread T1 (metric diameter × pitch (mm))	Mass per100 pieces (kg/100 pieces)	Port thread family	Port thread T2 (metric diameter × pitch (mm))	Seal form	DIN series label	Listed pressure (bar)
GE08LM22X1.5	14×1.5	7.6	metric parallel	22×1.5	Confirm	L	315.0
GE08LMED	Confirm	Confirm	metric parallel	Confirm	ED; compound unspecified	L	Confirm
GE10LM	16×1.5	4.7	metric parallel	14×1.5	Confirm	L	315.0
GE10LM12X1.5	16×1.5	4.0	metric parallel	12×1.5	Confirm	L	315.0
GE10LM16X1.5	16×1.5	6.0	metric parallel	16×1.5	Confirm	L	315.0
GE10LM18X1.5	16×1.5	7.0	metric parallel	18×1.5	Confirm	L	315.0
GE10LM22X1.5	16×1.5	9.2	metric parallel	22×1.5	Confirm	L	315.0
GE10LMED	Confirm	Confirm	metric parallel	Confirm	ED; compound unspecified	L	Confirm
GE10LMED16X1.5	Confirm	Confirm	metric parallel	Confirm	ED; compound unspecified	L	Confirm
GE12LM	18×1.5	6.5	metric parallel	16×1.5	Confirm	L	315.0
GE12LM14X1.5	18×1.5	5.7	metric parallel	14×1.5	Confirm	L	315.0
GE12LM18X1.5	18×1.5	7.4	metric parallel	18×1.5	Confirm	L	315.0
GE12LM22X1.5	18×1.5	10.3	metric parallel	22×1.5	Confirm	L	315.0
GE12LMED	Confirm	Confirm	metric parallel	Confirm	ED; compound unspecified	L	Confirm
GE15LM	22×1.5	11.5	metric parallel	18×1.5	Confirm	L	315.0
GE15LM16X1.5	22×1.5	9.7	metric parallel	16×1.5	Confirm	L	315.0
GE15LM22X1.5	22×1.5	12.1	metric parallel	22×1.5	Confirm	L	315.0
GE16SM	24×1.5	16.0	metric parallel	22×1.5	Confirm	S	400.0
GE18LM22X1.5	26×1.5	13.0	metric parallel	22×1.5	Confirm	L	315.0

Identifying columns are repeated. Read all column groups together for the complete row specification.

GE-M/MED - METRIC STRAIGHT MALE STUD COUPLER / column group 2 of 2

Part code	Tube outside diameter (mm)
GE06LMED	6
GE08LM	8
GE08LM14X1.5	8
GE08LM16X1.5	8
GE08LM18X1.5	8
GE08LM22X1.5	8
GE08LMED	8
GE10LM	10
GE10LM12X1.5	10
GE10LM16X1.5	10
GE10LM18X1.5	10
GE10LM22X1.5	10
GE10LMED	10
GE10LMED16X1.5	10
GE12LM	12
GE12LM14X1.5	12
GE12LM18X1.5	12
GE12LM22X1.5	12
GE12LMED	12
GE15LM	15
GE15LM16X1.5	15

GE-M/MED - METRIC STRAIGHT MALE STUD COUPLER / column group 2 of 2

Part code	Tube outside diameter (mm)
GE15LM22X1.5	15
GE16SM	16
GE18LM22X1.5	18

Identifying columns are repeated. Read all column groups together for the complete row specification.

Exact tube-fitting selections by tube outside diameter, series and the connection dimensions shown. Use the exact tube outside diameter, series and stated threads together. Listed pressure is specific to the row; material, seal compound, temperature basis, assembly requirements and installation dimensions require confirmation. Missing values are not inferred from a DIN series or similar part number. Some connection fields are awaiting a corrected dimensional drawing and are omitted; confirm the exact connection before ordering.

[Application & quotation checklist](#)

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

014 / GE-R - BSP STRAIGHT MALE STUD COUPLER

Hydraulic tube connections and installation components selected to the specified interface.

Ordering references: GE06LR-1/8 / GE06LR-3/8 / GE08LR-1/4 / GE08LR-1/8 / GE08LR-3/8 / GE08SR-1/4 / GE10LR-1/2 / GE10LR-1/4 / GE10LR-1/8 / GE10LR-3/8 / GE10SR-3/8 / GE12LR-1/2 / GE12LR-1/4 / GE12LR-3/8 / GE12SR-1/2 / GE12SR-1/4 / GE12SR-3/8 / GE15LR-1/2 / GE15LR-3/4 / GE15LR-3/8 / GE16SR-1/2 / GE16SR-3/4 / GE16SR-3/8 / GE18LR-1/2 / GE18LR-3/4 / GE20SR-1 / GE20SR-1/2 / GE20SR-3/4 / GE25SR-1 / GE25SR-3/4 / GE28LR-1 / GE28LR-3/4 / GE30SR-1 / GE30SR-11/4 / GE35LR-1 / GE35LR-11/4 / GE38SR-11/2

[GE-R - BSP STRAIGHT MALE STUD COUPLER](#)

Part code	Tube-end thread T1 (metric diameter × pitch (mm))	Mass per100 pieces (kg/100 pieces)	Port thread family	Port thread T2 (in)	DIN series label	Listed pressure (bar)	Tube outside diameter (mm)
GE06LR-1/8	12×1.5	2.5	BSPP	1/8	L	315.0	6
GE06LR-3/8	12×1.5	5.6	BSPP	3/8	L	315.0	6
GE08LR-1/4	14×1.5	4.5	BSPP	1/4	L	315.0	8
GE08LR-1/8	14×1.5	3.1	BSPP	1/8	L	315.0	8
GE08LR-3/8	14×1.5	6.0	BSPP	3/8	L	315.0	8
GE08SR-1/4	16×1.5	6.0	BSPP	1/4	S	630.0	8

GE-R - BSP STRAIGHT MALE STUD COUPLER

Part code	Tube-end thread T1 (metric diameter x pitch (mm))	Mass per100 pieces (kg/100 pieces)	Port thread family	Port thread T2 (in)	DIN series label	Listed pressure (bar)	Tube outside diameter (mm)
GE10LR-1/2	16x1.5	9.2	BSPP	1/2	L	315.0	10
GE10LR-1/4	16x1.5	4.7	BSPP	1/4	L	315.0	10
GE10LR-1/8	16x1.5	4.0	BSPP	1/8	L	315.0	10
GE10LR-3/8	16x1.5	6.0	BSPP	3/8	L	315.0	10
GE10SR-3/8	18x1.5	9.0	BSPP	3/8	S	630.0	10
GE12LR-1/2	18x1.5	9.5	BSPP	1/2	L	315.0	12
GE12LR-1/4	18x1.5	6.1	BSPP	1/4	L	315.0	12
GE12LR-3/8	18x1.5	6.5	BSPP	3/8	L	315.0	12
GE12SR-1/2	20x1.5	13.5	BSPP	1/2	S	630.0	12
GE12SR-1/4	20x1.5	9.3	BSPP	1/4	S	630.0	12
GE12SR-3/8	20x1.5	10.2	BSPP	3/8	S	630.0	12
GE15LR-1/2	22x1.5	11.5	BSPP	1/2	L	315.0	15
GE15LR-3/4	22x1.5	16.1	BSPP	3/4	L	315.0	15
GE15LR-3/8	22x1.5	9.7	BSPP	3/8	L	315.0	15
GE16SR-1/2	24x1.5	16.0	BSPP	1/2	S	400.0	16
GE16SR-3/4	24x1.5	22.6	BSPP	3/4	S	400.0	16
GE16SR-3/8	24x1.5	15.3	BSPP	3/8	S	400.0	16
GE18LR-1/2	26x1.5	13.0	BSPP	1/2	L	315.0	18
GE18LR-3/4	26x1.5	17.3	BSPP	3/4	L	315.0	18
GE20SR-1	30x2	41.5	BSPP	1	S	400.0	20
GE20SR-1/2	30x2	24.3	BSPP	1/2	S	400.0	20

GE-R - BSP STRAIGHT MALE STUD COUPLER

Part code	Tube-end thread T1 (metric diameter × pitch (mm))	Mass per100 pieces (kg/100 pieces)	Port thread family	Port thread T2 (in)	DIN series label	Listed pressure (bar)	Tube outside diameter (mm)
GE20SR-3/4	30×2	27.0	BSPP	3/4	S	400.0	20
GE25SR-1	36×2	49.0	BSPP	1	S	400.0	25
GE25SR-3/4	36×2	46.5	BSPP	3/4	S	400.0	25
GE28LR-1	36×2	25.0	BSPP	1	L	160.0	28
GE28LR-3/4	36×2	25.6	BSPP	3/4	L	160.0	28
GE30SR-1	42×2	57.8	BSPP	1	S	400.0	30
GE30SR-11/4	42×2	82.0	BSPP	1-1/4	S	400.0	30
GE35LR-1	45×2	37.8	BSPP	1	L	160.0	35
GE35LR-11/4	45×2	41.0	BSPP	1-1/4	L	160.0	35
GE38SR-11/2	52×2	92.0	BSPP	1-1/2	S	315.0	38

Exact tube-fitting selections by tube outside diameter, series and the connection dimensions shown. Use the exact tube outside diameter, series and stated threads together. Listed pressure is specific to the row; material, seal compound, temperature basis, assembly requirements and installation dimensions require confirmation. Missing values are not inferred from a DIN series or similar part number.

Application & quotation checklist

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

015 / GE-NPT - NPT STRAIGHT MALE STUD COUPLER

Hydraulic tube connections and installation components selected to the specified interface.

Ordering references: GE04LL1/8NPT / GE06L1/4NPT / GE06L1/8NPT / GE06LL1/8NPT / GE06S1/4NPT / GE08L1/4NPT / GE08L1/8NPT / GE08L3/8NPT / GE08S1/4NPT / GE10L1/2NPT / GE10L1/4NPT / GE10L3/8NPT / GE10S1/4NPT / GE10S3/8NPT / GE12L1/2NPT / GE12L1/4NPT / GE12L3/8NPT / GE12S1/2NPT / GE12S1/4NPT / GE12S3/8NPT / GE14S1/2NPT / GE15L1/2NPT / GE15L3/8NPT / GE16S1/2NPT / GE16S3/4NPT / GE16S3/8NPT / GE18L1/2NPT / GE18L3/4NPT / GE20S1/2NPT / GE20S3/4NPT / GE22L1/2NPT / GE22L3/4NPT / GE25S1NPT / GE25S3/4NPT / GE30S1NPT / GE35L11/2NPT / GE35L11/4NPT / GE38S11/2NPT / GE42L11/2NPT

GE-NPT - NPT STRAIGHT MALE STUD COUPLER

Part code	Tube-end thread T1 (metric diameter x pitch (mm))	Mass per 100 pieces (kg/100 pieces)	Port thread family	Port thread T2 (in)	DIN series label	Listed pressure (bar)	Tube outside diameter (mm)
GE04LL1/8NPT	Confirm	Confirm	NPT taper	1/8	LL	Confirm	4
GE06L1/4NPT	12×1.5	3.9	NPT taper	Confirm	L	315.0	6
GE06L1/8NPT	12×1.5	2.4	NPT taper	Confirm	L	315.0	6
GE06LL1/8NPT	12×1.5	Confirm	NPT taper	Confirm	LL	Confirm	6
GE06S1/4NPT	14×1.5	5.4	NPT taper	1/4	S	630.0	6
GE08L1/4NPT	14×1.5	4.2	NPT taper	Confirm	L	315.0	8
GE08L1/8NPT	14×1.5	3.0	NPT taper	Confirm	L	315.0	8
GE08L3/8NPT	14×1.5	6.0	NPT taper	Confirm	L	315.0	8
GE08S1/4NPT	16×1.5	6.0	NPT taper	1/4	S	630.0	8
GE10L1/2NPT	16×1.5	8.3	NPT taper	Confirm	L	315.0	10
GE10L1/4NPT	16×1.5	4.7	NPT taper	1/4	L	315.0	10
GE10L3/8NPT	16×1.5	6.0	NPT taper	Confirm	L	315.0	10
GE10S1/4NPT	18×1.5	7.5	NPT taper	1/4	S	630.0	10
GE10S3/8NPT	18×1.5	8.0	NPT taper	3/8	S	630.0	10
GE12L1/2NPT	18×1.5	9.0	NPT taper	Confirm	L	315.0	12
GE12L1/4NPT	18×1.5	5.9	NPT taper	Confirm	L	315.0	12
GE12L3/8NPT	18×1.5	6.5	NPT taper	Confirm	L	315.0	12
GE12S1/2NPT	20×1.5	12.0	NPT taper	1/2	S	630.0	12
GE12S1/4NPT	20×1.5	9.0	NPT taper	1/4	S	630.0	12
GE12S3/8NPT	20×1.5	9.9	NPT taper	3/8	S	630.0	12
GE14S1/2NPT	22×1.5	14.4	NPT taper	1/2	S	630.0	14

GE-NPT - NPT STRAIGHT MALE STUD COUPLER

Part code	Tube-end thread T1 (metric diameter × pitch (mm))	Mass per 100 pieces (kg/100 pieces)	Port thread family	Port thread T2 (in)	DIN series label	Listed pressure (bar)	Tube outside diameter (mm)
GE15L1/2NPT	22×1.5	10.8	NPT taper	1/2	L	315.0	15
GE15L3/8NPT	22×1.5	9.3	NPT taper	Confirm	L	315.0	15
GE16S1/2NPT	24×1.5	16.5	NPT taper	1/2	S	400.0	16
GE16S3/4NPT	24×1.5	Confirm	NPT taper	3/4	S	400.0	16
GE16S3/8NPT	24×1.5	15.7	NPT taper	3/8	S	400.0	16
GE18L1/2NPT	26×1.5	14.3	NPT taper	1/2	L	315.0	18
GE18L3/4NPT	26×1.5	17.3	NPT taper	3/4	L	160.0	18
GE20S1/2NPT	30×2	Confirm	NPT taper	1/2	S	400.0	20
GE20S3/4NPT	30×2	26.0	NPT taper	3/4	S	400.0	20
GE22L1/2NPT	30×2	Confirm	NPT taper	1/2	L	160.0	22
GE22L3/4NPT	30×2	19.5	NPT taper	3/4	L	160.0	22
GE25S1NPT	36×2	49.5	NPT taper	1	S	400.0	25
GE25S3/4NPT	36×2	Confirm	NPT taper	3/4	S	400.0	25
GE30S1NPT	42×2	56.1	NPT taper	1	S	400.0	30
GE35L11/2NPT	45×2	Confirm	NPT taper	1-1/2	L	160.0	35
GE35L11/4NPT	45×2	44.0	NPT taper	1-1/4	L	160.0	35
GE38S11/2NPT	52×2	91.3	NPT taper	1-1/2	S	315.0	38
GE42L11/2NPT	52×2	58.3	NPT taper	1-1/2	L	160.0	42

Exact tube-fitting selections by tube outside diameter, series and the connection dimensions shown. Use the exact tube outside diameter, series and stated threads together. Listed pressure is specific to the row; material, seal compound, temperature basis, assembly requirements and installation dimensions require confirmation. Missing values are not inferred from a DIN series or similar part number. Some connection fields are awaiting a corrected dimensional drawing and are omitted; confirm the exact connection before ordering.

Application & quotation checklist

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

016 / EVL - ADJUSTABLE RUN TEE

Hydraulic tube connections and installation components selected to the specified interface.

Ordering references: EVL06L / EVL08L / EVL10L / EVL12L / EVL12S / EVL15L / EVL16S / EVL18L / EVL20S / EVL22L / EVL25S

EVL - ADJUSTABLE RUN TEE

Part code	Adjustable connection	Tube-end thread T1 (metric diameter × pitch (mm))	Second fitting thread T2 (metric diameter × pitch (mm))	DIN series label	Listed pressure (bar)	Tube outside diameter (mm)
EVL06L	Yes	12×1.5	12×1.5	L	315.0	6
EVL08L	Yes	14×1.5	14×1.5	L	315.0	8
EVL10L	Yes	16×1.5	16×1.5	L	315.0	10
EVL12L	Yes	18×1.5	18×1.5	L	315.0	12
EVL12S	Yes	20×1.5	20×1.5	S	630.0	12
EVL15L	Yes	22×1.5	22×1.5	L	315.0	15
EVL16S	Yes	24×1.5	24×1.5	S	400.0	16
EVL18L	Yes	26×1.5	26×1.5	L	315.0	18
EVL20S	Yes	30×2	30×2	S	400.0	20
EVL22L	Yes	30×2	30×2	L	160.0	22
EVL25S	Yes	36×2	36×2	S	400.0	25

Exact tube-fitting selections by tube outside diameter, series and the connection dimensions shown. Use the exact tube outside diameter, series and stated threads together. Listed pressure is specific to the row; material, seal compound, temperature basis, assembly requirements and installation dimensions require confirmation. Missing values are not inferred from a DIN series or similar part number.

Application & quotation checklist

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

017 / EVT - ADJUSTABLE BRANCH TEE

Hydraulic tube connections and installation components selected to the specified interface.

Ordering references: EVT06L / EVT08L / EVT08S / EVT10L / EVT10S / EVT12L / EVT15L / EVT18L

EVT - ADJUSTABLE BRANCH TEE

Part code	Adjustable connection	Tube-end thread T1 (metric diameter × pitch (mm))	Second fitting thread T2 (metric diameter × pitch (mm))	DIN series label	Listed pressure (bar)	Tube outside diameter (mm)
EVT06L	Yes	12×1.5	12×1.5	L	315.0	6
EVT08L	Yes	14×1.5	14×1.5	L	315.0	8
EVT08S	Yes	16×1.5	Confirm	S	630.0	8
EVT10L	Yes	16×1.5	16×1.5	L	315.0	10
EVT10S	Yes	18×1.5	Confirm	S	630.0	10
EVT12L	Yes	18×1.5	18×1.5	L	315.0	12
EVT15L	Yes	22×1.5	22×1.5	L	315.0	15
EVT18L	Yes	26×1.5	26×1.5	L	315.0	18

Exact tube-fitting selections by tube outside diameter, series and the connection dimensions shown. Use the exact tube outside diameter, series and stated threads together. Listed pressure is specific to the row; material, seal compound, temperature basis, assembly requirements and installation dimensions require confirmation. Missing values are not inferred from a DIN series or similar part number. Some connection fields are awaiting a corrected dimensional drawing and are omitted; confirm the exact connection before ordering.

Application & quotation checklist

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

018 / EVW - ADJUSTABLE ELBOW

Hydraulic tube connections and installation components selected to the specified interface.

Ordering references: EVW06L / EVW06S / EVW08L / EVW08S / EVW10L / EVW10S / EVW12L / EVW12S / EVW14S / EVW15L / EVW16S / EVW18L / EVW20S / EVW22L / EVW25S / EVW28L / EVW30S / EVW35L / EVW38S / EVW42L

EVW - ADJUSTABLE ELBOW

Part code	Adjustable connection	Fitting angle (degrees)	Tube-end thread T1 (metric diameter x pitch (mm))	Second fitting thread T2 (metric diameter x pitch (mm))	DIN series label	Listed pressure (bar)	Tube outside diameter (mm)
EVW06L	Yes	90	12×1.5	12×1.5	L	315.0	6
EVW06S	Yes	90	14×1.5	14×1.5	S	630.0	6
EVW08L	Yes	90	14×1.5	14×1.5	L	315.0	8
EVW08S	Yes	90	16×1.5	16×1.5	S	630.0	8
EVW10L	Yes	90	16×1.5	16×1.5	L	315.0	10
EVW10S	Yes	90	18×1.5	18×1.5	S	630.0	10
EVW12L	Yes	90	18×1.5	18×1.5	L	315.0	12
EVW12S	Yes	90	20×1.5	20×1.5	S	630.0	12
EVW14S	Yes	90	22×1.5	22×1.5	S	630.0	14
EVW15L	Yes	90	22×1.5	22×1.5	L	315.0	15
EVW16S	Yes	90	24×1.5	24×1.5	S	400.0	16
EVW18L	Yes	90	26×1.5	26×1.5	L	160.0	18
EVW20S	Yes	90	30×2	30×2	S	400.0	20
EVW22L	Yes	90	30×2	30×2	L	160.0	22
EVW25S	Yes	90	36×2	36×2	S	400.0	25
EVW28L	Yes	90	36×2	36×2	L	160.0	28
EVW30S	Yes	90	42×2	42×2	S	400.0	30
EVW35L	Yes	90	45×2	45×2	L	160.0	35
EVW38S	Yes	90	52×2	52×2	S	315.0	38
EVW42L	Yes	90	52×2	52×2	L	160.0	42

Exact tube-fitting selections by tube outside diameter, series and the connection dimensions shown. Use the exact tube outside diameter, series and stated threads together. Listed pressure is specific to the row; material, seal compound, temperature basis, assembly requirements and installation dimensions require confirmation. Missing values are not inferred from a DIN series or similar part number.

Application & quotation checklist

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

019 / KOR - REDUCING STAND PIPE

Hydraulic tube connections and installation components selected to the specified interface.

Ordering references: KOR08/06L / KOR10/08L / KOR12/06L / KOR12/08L / KOR12/10L / KOR15/12L / KOR16/12S / KOR18/10L / KOR18/12L / KOR18/15L / KOR20/12S / KOR22/18L / KOR25/12S / KOR25/20S

KOR - REDUCING STAND PIPE

Part code	Tube-end thread T1 (metric diameter × pitch (mm))	Second fitting thread T2 (metric diameter × pitch (mm))	DIN series label	Listed pressure (bar)	Tube outside diameter (mm)
KOR08/06L	14×1.5	12×1.5	L	315.0	8
KOR10/08L	16×1.5	14×1.5	L	315.0	10
KOR12/06L	18×1.5	12×1.5	L	315.0	12
KOR12/08L	18×1.5	14×1.5	L	315.0	12
KOR12/10L	18×1.5	16×1.5	L	315.0	12
KOR15/12L	22×1.5	18×1.5	L	315.0	15
KOR16/12S	24×1.5	20×1.5	S	400.0	16
KOR18/10L	26×1.5	16×1.5	L	315.0	18
KOR18/12L	26×1.5	18×1.5	L	315.0	18
KOR18/15L	26×1.5	22×1.5	L	315.0	18
KOR20/12S	30×2	20×1.5	S	400.0	20
KOR22/18L	30×2	26×1.5	L	315.0	22
KOR25/12S	36×2	20×1.5	S	400.0	25
KOR25/20S	36×2	30×2	S	400.0	25

Exact tube-fitting selections by tube outside diameter, series and the connection dimensions shown. Use the exact tube outside diameter, series and stated threads together. Listed pressure is specific to the row; material, seal compound, temperature basis, assembly requirements and installation dimensions require confirmation. Missing values are not inferred from a DIN series or similar part number.

[Application & quotation checklist](#)

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

020 / GAI - STRAIGHT FEMALE STUD COUPLING

Hydraulic tube connections and installation components selected to the specified interface.

Ordering references: GAI06LR / GAI06SR / GAI08LR / GAI08SR / GAI10LR / GAI10SR / GAI12LR / GAI12SR / GAI14SR / GAI18LR

[GAI - STRAIGHT FEMALE STUD COUPLING](#)

Part code	Tube-end thread T1 (metric diameter × pitch (mm))	Port thread family	Port thread T2 (in)	DIN series label	Listed pressure (bar)	Tube outside diameter (mm)
GAI06LR	12×1.5	BSP female; parallel/taper not specified	1/8	L	315.0	6
GAI06SR	14×1.5	BSP female; parallel/taper not specified	1/4	S	630.0	6
GAI08LR	14×1.5	BSP female; parallel/taper not specified	1/4	L	315.0	8
GAI08SR	16×1.5	BSP female; parallel/taper not specified	1/4	S	630.0	8
GAI10LR	16×1.5	BSP female; parallel/taper not specified	1/4	L	315.0	10
GAI10SR	18×1.5	BSP female; parallel/taper not specified	3/8	S	630.0	10
GAI12LR	18×1.5	BSP female; parallel/taper not specified	3/8	L	315.0	12
GAI12SR	20×1.5	BSP female; parallel/taper not specified	3/8	S	630.0	12
GAI14SR	22×1.5	BSP female; parallel/taper not specified	1/2	S	630.0	14
GAI18LR	26×1.5	BSP female; parallel/taper not specified	1/2	L	315.0	18

Exact tube-fitting selections by tube outside diameter, series and the connection dimensions shown. Use the exact tube outside diameter, series and stated threads together. Listed pressure is specific to the row; material, seal compound, temperature basis, assembly requirements and installation dimensions require confirmation. Missing values are not inferred from a DIN series or similar part number.

[Application & quotation checklist](#)

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

021 / RI - MALE FEMALE REDUCING BUSH

Hydraulic tube connections and installation components selected to the specified interface.

Ordering references: RI1/2X1 / RI1/2X1/4 / RI1/2X3/8 / RI1/4X1/2 / RI1/4X1/8 / RI1/4X3/4 / RI1/4X3/8 / RI1/8X1/4 / RI11/4X1 / RI11/4X1/2 / RI11/4X3/4 / RI1X1/2 / RI1X3/4 / RI3/4X1/2 / RI3/4X1/4 / RI3/4X3/8 / RI3/8X1/2 / RI3/8X1/4 / RI3/8X1/8

RI - MALE FEMALE REDUCING BUSH

Part code	Female thread T2 (in)	Male thread T1 (in)	Thread family
RI1/2X1	1	1/2	BSP; parallel/taper not specified
RI1/2X1/4	1/4	1/2	BSP; parallel/taper not specified
RI1/2X3/8	3/8	1/2	BSP; parallel/taper not specified
RI1/4X1/2	1/2	1/4	BSP; parallel/taper not specified
RI1/4X1/8	1/8	1/4	BSP; parallel/taper not specified
RI1/4X3/4	3/4	1/4	BSP; parallel/taper not specified
RI1/4X3/8	3/8	1/4	BSP; parallel/taper not specified
RI1/8X1/4	1/4	1/8	BSP; parallel/taper not specified
RI11/4X1	1	1-1/4	BSP; parallel/taper not specified
RI11/4X1/2	1/2	1-1/4	BSP; parallel/taper not specified
RI11/4X3/4	3/4	1-1/4	BSP; parallel/taper not specified
RI1X1/2	1/2	1	BSP; parallel/taper not specified
RI1X3/4	3/4	1	BSP; parallel/taper not specified
RI3/4X1/2	1/2	3/4	BSP; parallel/taper not specified
RI3/4X1/4	1/4	3/4	BSP; parallel/taper not specified
RI3/4X3/8	3/8	3/4	BSP; parallel/taper not specified
RI3/8X1/2	1/2	3/8	BSP; parallel/taper not specified

RI - MALE FEMALE REDUCING BUSH

Part code	Female thread T2 (in)	Male thread T1 (in)	Thread family
RI3/8X1/4	1/4	3/8	BSP; parallel/taper not specified
RI3/8X1/8	1/8	3/8	BSP; parallel/taper not specified

Exact tube-fitting selections by tube outside diameter, series and the connection dimensions shown. Nominal connection or tube size is listed only where explicitly stated. Confirm exact thread form, seals, material, working pressure, temperature and outline dimensions. No generic pressure rating is assigned.

Application & quotation checklist

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

022 / WE-NPT - MALE STUD ELBOW - NPT

Hydraulic tube connections and installation components selected to the specified interface.

Ordering references: WE06L-1/4NPT / WE06L-1/8NPT / WE06S-1/4NPT / WE08L-1/4NPT / WE10L-1/4NPT / WE10L-3/8NPT / WE12L-1/2NPT / WE12L-1/4NPT / WE12L-3/8NPT / WE12S-1/2NPT / WE14S-1/2NPT / WE16S-1/2NPT / WE20S-3/4NPT / WE22L-3/4NPT / WE25S-1NPT / WE28L-1NPT

WE-NPT - MALE STUD ELBOW - NPT

Part code	Fitting angle (degrees)	Tube-end thread T1 (metric diameter × pitch (mm))	Port thread family	Port thread T2 (in)	DIN series label	Listed pressure (bar)	Tube outside diameter (mm)
WE06L-1/4NPT	90	12×1.5	NPT taper	1/4	L	315.0	6
WE06L-1/8NPT	90	12×1.5	NPT taper	1/8	L	315.0	6
WE06S-1/4NPT	90	14×1.5	NPT taper	1/4	S	630.0	6
WE08L-1/4NPT	90	14×1.5	NPT taper	1/4	L	315.0	8
WE10L-1/4NPT	90	16×1.5	NPT taper	1/4	L	315.0	10
WE10L-3/8NPT	90	16×1.5	NPT taper	3/8	L	315.0	10
WE12L-1/2NPT	90	18×1.5	NPT taper	1/2	L	315.0	12
WE12L-1/4NPT	90	18×1.5	NPT taper	1/4	L	315.0	12
WE12L-3/8NPT	90	18×1.5	NPT taper	3/8	L	315.0	12

WE-NPT - MALE STUD ELBOW - NPT

Part code	Fitting angle (degrees)	Tube-end thread T1 (metric diameter × pitch (mm))	Port thread family	Port thread T2 (in)	DIN series label	Listed pressure (bar)	Tube outside diameter (mm)
WE12S-1/2NPT	90	20×1.5	NPT taper	1/2	S	630.0	12
WE14S-1/2NPT	90	22×1.5	NPT taper	1/2	S	630.0	14
WE16S-1/2NPT	90	24×1.5	NPT taper	1/2	S	400.0	16
WE20S-3/4NPT	90	30×2	NPT taper	3/4	S	400.0	20
WE22L-3/4NPT	90	30×2	NPT taper	3/4	L	160.0	22
WE25S-1NPT	90	36×2	NPT taper	1	S	400.0	25
WE28L-1NPT	90	36×2	NPT taper	1	L	160.0	28

Exact tube-fitting selections by tube outside diameter, series and the connection dimensions shown. Use the exact tube outside diameter, series and stated threads together. Listed pressure is specific to the row; material, seal compound, temperature basis, assembly requirements and installation dimensions require confirmation. Missing values are not inferred from a DIN series or similar part number.

Application & quotation checklist

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

023 / WE-R - MALE STUD ELBOW - BSPP

Hydraulic tube connections and installation components selected to the specified interface.

Ordering references: WE06LR1/4 / WE06LR1/8 / WE08LR1/4 / WE10LR1/4 / WE12LR1/4 / WE12LR3/8 / WE16SR1/2 / WE18LR1/2

WE-R - MALE STUD ELBOW - BSPP

Part code	Fitting angle (degrees)	Tube-end thread T1 (metric diameter × pitch (mm))	Port thread family	Port thread T2 (in)	DIN series label	Listed pressure (bar)	Tube outside diameter (mm)
WE06LR1/4	90	12×1.5	BSPP	1/4	L	315.0	6
WE06LR1/8	90	12×1.5	BSPP	1/8	L	315.0	6
WE08LR1/4	90	14×1.5	BSPP	1/4	L	315.0	8
WE10LR1/4	90	16×1.5	BSPP	1/4	L	315.0	10

WE-R - MALE STUD ELBOW - BSPP

Part code	Fitting angle (degrees)	Tube-end thread T1 (metric diameter × pitch (mm))	Port thread family	Port thread T2 (in)	DIN series label	Listed pressure (bar)	Tube outside diameter (mm)
WE12LR1/4	90	18×1.5	BSPP	1/4	L	315.0	12
WE12LR3/8	90	18×1.5	BSPP	3/8	L	315.0	12
WE16SR1/2	90	24×1.5	BSPP	1/2	S	400.0	16
WE18LR1/2	90	26×1.5	BSPP	1/2	L	315.0	18

Exact tube-fitting selections by tube outside diameter, series and the connection dimensions shown. Use the exact tube outside diameter, series and stated threads together. Listed pressure is specific to the row; material, seal compound, temperature basis, assembly requirements and installation dimensions require confirmation. Missing values are not inferred from a DIN series or similar part number.

Application & quotation checklist

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

024 / BUZ - BLANKING PLUGS

Hydraulic tube connections and installation components selected to the specified interface.

Ordering references: BUZ06L/S / BUZ08L/S / BUZ10L/S / BUZ12L/S / BUZ15L / BUZ16S / BUZ18L / BUZ20S / BUZ22L / BUZ25S / BUZ30S / BUZ38S

BUZ - BLANKING PLUGS

Part code	DIN series label	Listed pressure (bar)	Tube outside diameter (mm)
BUZ06L/S	L/S	315.0	6
BUZ08L/S	L/S	315.0	8
BUZ10L/S	L/S	315.0	10
BUZ12L/S	L/S	315.0	12
BUZ15L	L	315.0	15
BUZ16S	S	400.0	16
BUZ18L	L	315.0	18

BUZ - BLANKING PLUGS

Part code	DIN series label	Listed pressure (bar)	Tube outside diameter (mm)
BUZ20S	S	400.0	20
BUZ22L	L	160.0	22
BUZ25S	S	400.0	25
BUZ30S	S	400.0	30
BUZ38S	S	315.0	38

Exact tube-fitting selections by tube outside diameter, series and the connection dimensions shown. Use the exact tube outside diameter, series and stated threads together. Listed pressure is specific to the row; material, seal compound, temperature basis, assembly requirements and installation dimensions require confirmation. Missing values are not inferred from a DIN series or similar part number.

Application & quotation checklist

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

025 / VSTI-ED - LOCKING COMPONENT - BSP PLUG

Hydraulic tube connections and installation components selected to the specified interface.

Ordering references: VSTI1/2ED / VSTI1/4ED / VSTI1/8ED / VSTI11/2ED / VSTI11/4ED / VSTI1ED / VSTI3/4ED / VSTI3/8ED

VSTI-ED - LOCKING COMPONENT - BSP PLUG

Part code	Nominal plug thread	Seal form	Thread family
VSTI1/2ED	1/2	ED; compound unspecified	BSP; parallel/taper not specified
VSTI1/4ED	1/4	ED; compound unspecified	BSP; parallel/taper not specified
VSTI1/8ED	1/8	ED; compound unspecified	BSP; parallel/taper not specified
VSTI11/2ED	1-1/2	ED; compound unspecified	BSP; parallel/taper not specified
VSTI11/4ED	1-1/4	ED; compound unspecified	BSP; parallel/taper not specified
VSTI1ED	1	ED; compound unspecified	BSP; parallel/taper not specified
VSTI3/4ED	3/4	ED; compound unspecified	BSP; parallel/taper not specified

VSTI-ED - LOCKING COMPONENT - BSP PLUG

Part code	Nominal plug thread	Seal form	Thread family
VSTI3/8ED	3/8	ED; compound unspecified	BSP; parallel/taper not specified

Exact tube-fitting selections by tube outside diameter, series and the connection dimensions shown. Nominal connection or tube size is listed only where explicitly stated. Confirm exact thread form, seals, material, working pressure, temperature and outline dimensions. No generic pressure rating is assigned.

Application & quotation checklist

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

026 / MAV - BSP PRESSURE GAUGE CONNECTOR

Hydraulic tube connections and installation components selected to the specified interface.

Ordering references: MAV06LR / MAV06SR / MAV08LR / MAV08SR / MAV10LR / MAV10SR / MAV12LR / MAV12SR

MAV - BSP PRESSURE GAUGE CONNECTOR

Part code	Connection family	DIN series label	Tube outside diameter (mm)
MAV06LR	BSP gauge connection; nominal gauge thread not stated	L	6
MAV06SR	BSP gauge connection; nominal gauge thread not stated	S	6
MAV08LR	BSP gauge connection; nominal gauge thread not stated	L	8
MAV08SR	BSP gauge connection; nominal gauge thread not stated	S	8
MAV10LR	BSP gauge connection; nominal gauge thread not stated	L	10
MAV10SR	BSP gauge connection; nominal gauge thread not stated	S	10
MAV12LR	BSP gauge connection; nominal gauge thread not stated	L	12
MAV12SR	BSP gauge connection; nominal gauge thread not stated	S	12

Exact tube-fitting selections by tube outside diameter, series and the connection dimensions shown. Nominal connection or tube size is listed only where explicitly stated. Confirm exact thread form, seals, material, working pressure, temperature and outline dimensions. No generic pressure rating is assigned.

Application & quotation checklist

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

027 / Single

Hydraulic tube connections and installation components selected to the specified interface.

Ordering references: CL06 / CL08 / CL10 / CL12 / CL14 / CL15 / CL16 / CL18 / CL20 / CL22 / CL25 / CL28 / CL30 / CL32 / CL35 / CL38 / CL42

Single and twin tube-clamp bores

Part code	Tube outside diameter (mm)	Tube positions	Block material
CL06	6	1	polypropylene
CL08	8	1	polypropylene
CL10	10	1	polypropylene
CL12	12	1	polypropylene
CL14	14	1	polypropylene
CL15	15	1	polypropylene
CL16	16	1	polypropylene
CL18	18	1	polypropylene
CL20	20	1	polypropylene
CL22	22	1	polypropylene
CL25	25	1	polypropylene
CL28	28	1	polypropylene
CL30	30	1	polypropylene
CL32	32	1	polypropylene
CL35	35	1	polypropylene
CL38	38	1	polypropylene
CL42	42	1	polypropylene

Single and twin polypropylene tube-clamp blocks selected by tube outside diameter. Confirm the mounting hardware, plate material, bolt spacing, overall dimensions and temperature requirement. Bore size does not establish mounting load or vibration capacity.

Application & quotation checklist

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

028 / Double

Hydraulic tube connections and installation components selected to the specified interface.

Ordering references: CD12 / CD15 / CD16 / CD18 / CD20 / CD22 / CD25 / CD28

Single and twin tube-clamp bores

Part code	Tube outside diameter (mm)	Tube positions	Block material
CD12	12	2	polypropylene
CD15	15	2	polypropylene
CD16	16	2	polypropylene
CD18	18	2	polypropylene
CD20	20	2	polypropylene
CD22	22	2	polypropylene
CD25	25	2	polypropylene
CD28	28	2	polypropylene

Single and twin polypropylene tube-clamp blocks selected by tube outside diameter. Confirm the mounting hardware, plate material, bolt spacing, overall dimensions and temperature requirement. Bore size does not establish mounting load or vibration capacity.

Application & quotation checklist

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

029 / Weld-Neck Stainless Steel Flanges

Specify the flange standard, size, drilling, facing and material for the mating installation.

Application: Application-led selection for the specified operating conditions.

Weld-neck flange construction dimensions / column group 1 of 2

Bolt circle k mm	Bolt hole count	Bolt hole diameter i mm	Construction	Flange od mm	Hub diameter m mm	Inside bore selection	Inside diameter j mm	Length through hub h mm
60.3	4.0	15.88	weld neck	90.0	30.0	Confirm	15.8	46.0
69.9	4.0	15.88	weld neck	100.0	38.0	Confirm	20.9	51.0
79.4	4.0	15.88	weld neck	110.0	49.0	Confirm	26.6	54.0
88.9	4.0	15.88	weld neck	115.0	59.0	Confirm	35.1	56.0
98.4	4.0	15.88	weld neck	125.0	65.0	Confirm	40.9	60.0
120.7	4.0	19.05	weld neck	150.0	78.0	Confirm	52.5	62.0
139.7	4.0	19.05	weld neck	180.0	90.0	Confirm	62.7	68.0
152.4	4.0	19.05	weld neck	190.0	108.0	Confirm	77.9	68.0
177.8	8.0	19.05	weld neck	215.0	122.0	Confirm	90.1	70.0
190.5	8.0	19.05	weld neck	230.0	135.0	Confirm	102.3	75.0
215.9	8.0	22.23	weld neck	255.0	164.0	Confirm	128.2	87.0
241.3	8.0	22.23	weld neck	280.0	192.0	Confirm	154.1	87.0
298.5	8.0	22.23	weld neck	345.0	246.0	Confirm	202.7	100.0
362.0	12.0	25.4	weld neck	405.0	305.0	Confirm	254.6	100.0
431.8	12.0	25.4	weld neck	485.0	365.0	Confirm	304.8	113.0
476.3	12.0	28.58	weld neck	535.0	400.0	specified by purchaser; drawing/schedule required	Confirm	125.0
539.8	16.0	28.58	weld neck	595.0	457.0	specified by purchaser; drawing/schedule required	Confirm	125.0
577.9	16.0	31.75	weld neck	635.0	505.0	specified by purchaser; drawing/schedule required	Confirm	138.0

Weld-neck flange construction dimensions / column group 1 of 2

Bolt circle k mm	Bolt hole count	Bolt hole diameter i mm	Construction	Flange od mm	Hub diameter m mm	Inside bore selection	Inside diameter j mm	Length through hub h mm
635.0	20.0	31.75	weld neck	700.0	559.0	specified by purchaser; drawing/schedule required	Confirm	143.0
749.3	20.0	34.93	weld neck	815.0	663.0	specified by purchaser; drawing/schedule required	Confirm	151.0
806.4	24.0	34.93	weld neck	870.0	676.0	specified by purchaser; drawing/schedule required	Confirm	119.0
744.5	36.0	22.23	weld neck	785.0	684.0	specified by purchaser; drawing/schedule required	Confirm	87.0
863.6	28.0	34.93	weld neck	925.0	727.0	specified by purchaser; drawing/schedule required	Confirm	124.0
795.3	40.0	22.23	weld neck	835.0	735.0	specified by purchaser; drawing/schedule required	Confirm	94.0
914.4	28.0	34.93	weld neck	985.0	781.0	specified by purchaser; drawing/schedule required	Confirm	135.0
846.1	44.0	22.23	weld neck	885.0	787.0	specified by purchaser; drawing/schedule required	Confirm	98.0
977.9	28.0	41.28	weld neck	1060.0	832.0	specified by purchaser; drawing/schedule required	Confirm	143.0
900.1	48.0	22.23	weld neck	940.0	840.0	specified by purchaser; drawing/schedule required	Confirm	106.0
1028.7	32.0	41.28	weld neck	1110.0	883.0	specified by purchaser; drawing/schedule required	Confirm	148.0
957.3	40.0	25.4	weld neck	1005.0	892.0	specified by purchaser; drawing/schedule required	Confirm	109.0
1085.8	32.0	41.28	weld neck	1170.0	933.0	specified by purchaser; drawing/schedule required	Confirm	156.0
1009.6	44.0	25.4	weld neck	1055.0	945.0	specified by purchaser; drawing/schedule required	Confirm	116.0

Weld-neck flange construction dimensions / column group 1 of 2

Bolt circle k mm	Bolt hole count	Bolt hole diameter i mm	Construction	Flange od mm	Hub diameter m mm	Inside bore selection	Inside diameter j mm	Length through hub h mm
1149.4	32.0	41.28	weld neck	1240.0	991.0	specified by purchaser; drawing/schedule required	Confirm	156.0
1070.0	40.0	28.58	weld neck	1125.0	997.0	specified by purchaser; drawing/schedule required	Confirm	122.0
1200.2	36.0	41.28	weld neck	1290.0	1041.0	specified by purchaser; drawing/schedule required	Confirm	162.0
1120.8	44.0	28.58	weld neck	1175.0	1049.0	specified by purchaser; drawing/schedule required	Confirm	127.0
1257.3	36.0	41.28	weld neck	1345.0	1092.0	specified by purchaser; drawing/schedule required	Confirm	170.0
1171.6	48.0	28.58	weld neck	1225.0	1102.0	specified by purchaser; drawing/schedule required	Confirm	132.0
1314.4	40.0	41.28	weld neck	1405.0	1143.0	specified by purchaser; drawing/schedule required	Confirm	176.0
1222.4	52.0	28.58	weld neck	1275.0	1153.0	specified by purchaser; drawing/schedule required	Confirm	135.0
1365.2	40.0	41.28	weld neck	1455.0	1197.0	specified by purchaser; drawing/schedule required	Confirm	184.0
1284.3	40.0	31.75	weld neck	1340.0	1205.0	specified by purchaser; drawing/schedule required	Confirm	143.0
1422.4	44.0	41.28	weld neck	1510.0	1248.0	specified by purchaser; drawing/schedule required	Confirm	191.0
1335.1	44.0	31.75	weld neck	1390.0	1257.0	specified by purchaser; drawing/schedule required	Confirm	148.0
66.7	4.0	15.88	weld neck	95.0	38.0	Confirm	15.8	51.0
82.6	4.0	19.05	weld neck	115.0	48.0	Confirm	20.9	56.0
88.9	4.0	19.05	weld neck	125.0	54.0	Confirm	26.6	60.0

Weld-neck flange construction dimensions / column group 1 of 2

Bolt circle k mm	Bolt hole count	Bolt hole diameter i mm	Construction	Flange od mm	Hub diameter m mm	Inside bore selection	Inside diameter j mm	Length through hub h mm
98.4	4.0	19.05	weld neck	135.0	64.0	Confirm	35.1	64.0
114.3	4.0	22.23	weld neck	155.0	70.0	Confirm	40.9	67.0
127.0	8.0	19.05	weld neck	165.0	84.0	Confirm	52.5	68.0
149.2	8.0	22.23	weld neck	190.0	100.0	Confirm	62.7	75.0
168.3	8.0	22.23	weld neck	210.0	117.0	Confirm	77.9	78.0
184.2	8.0	22.23	weld neck	230.0	133.0	Confirm	90.1	79.0
200.0	8.0	22.23	weld neck	255.0	146.0	Confirm	102.3	84.0
235.0	8.0	22.23	weld neck	280.0	178.0	Confirm	128.2	97.0
269.9	12.0	22.23	weld neck	320.0	206.0	Confirm	154.1	97.0
330.2	12.0	25.4	weld neck	380.0	260.0	Confirm	202.7	110.0
387.4	16.0	28.58	weld neck	445.0	321.0	Confirm	254.6	116.0
450.8	16.0	31.75	weld neck	520.0	375.0	Confirm	304.8	129.0
514.4	20.0	31.75	weld neck	585.0	425.0	specified by purchaser; drawing/schedule required	Confirm	141.0
571.5	20.0	34.93	weld neck	650.0	483.0	specified by purchaser; drawing/schedule required	Confirm	144.0
628.6	24.0	34.93	weld neck	710.0	533.0	specified by purchaser; drawing/schedule required	Confirm	157.0
685.8	24.0	34.93	weld neck	775.0	587.0	specified by purchaser; drawing/schedule required	Confirm	160.0
812.8	24.0	41.28	weld neck	915.0	702.0	specified by purchaser; drawing/schedule required	Confirm	167.0
876.3	28.0	44.45	weld neck	970.0	721.0	specified by purchaser; drawing/schedule required	Confirm	183.0

Weld-neck flange construction dimensions / column group 1 of 2

Bolt circle k mm	Bolt hole count	Bolt hole diameter i mm	Construction	Flange od mm	Hub diameter m mm	Inside bore selection	Inside diameter j mm	Length through hub h mm
803.3	32.0	34.93	weld neck	865.0	702.0	specified by purchaser; drawing/schedule required	Confirm	168.0
939.8	28.0	44.45	weld neck	1035.0	775.0	specified by purchaser; drawing/schedule required	Confirm	195.0
857.2	36.0	34.93	weld neck	920.0	756.0	specified by purchaser; drawing/schedule required	Confirm	148.0
997.0	28.0	47.63	weld neck	1090.0	827.0	specified by purchaser; drawing/schedule required	Confirm	208.0
920.8	36.0	38.1	weld neck	990.0	813.0	specified by purchaser; drawing/schedule required	Confirm	156.0
1054.1	28.0	50.8	weld neck	1150.0	881.0	specified by purchaser; drawing/schedule required	Confirm	221.0
977.9	32.0	41.28	weld neck	1055.0	864.0	specified by purchaser; drawing/schedule required	Confirm	167.0
1104.9	28.0	50.8	weld neck	1205.0	937.0	specified by purchaser; drawing/schedule required	Confirm	230.0
1031.9	36.0	41.28	weld neck	1110.0	918.0	specified by purchaser; drawing/schedule required	Confirm	171.0
1168.4	32.0	53.98	weld neck	1270.0	991.0	specified by purchaser; drawing/schedule required	Confirm	240.0
1089.0	32.0	44.45	weld neck	1170.0	965.0	specified by purchaser; drawing/schedule required	Confirm	179.0
1139.8	36.0	44.45	weld neck	1220.0	1016.0	specified by purchaser; drawing/schedule required	Confirm	165.0
1190.6	40.0	44.45	weld neck	1275.0	1067.0	specified by purchaser; drawing/schedule required	Confirm	197.0
1244.6	36.0	47.63	weld neck	1335.0	1118.0	specified by purchaser; drawing/schedule required	Confirm	203.0

Weld-neck flange construction dimensions / column group 1 of 2

Bolt circle k mm	Bolt hole count	Bolt hole diameter i mm	Construction	Flange od mm	Hub diameter m mm	Inside bore selection	Inside diameter j mm	Length through hub h mm
1295.4	40.0	47.63	weld neck	1385.0	1173.0	specified by purchaser; drawing/schedule required	Confirm	213.0
1365.2	36.0	50.8	weld neck	1460.0	1229.0	specified by purchaser; drawing/schedule required	Confirm	221.0
1416.0	40.0	50.8	weld neck	1510.0	1278.0	specified by purchaser; drawing/schedule required	Confirm	222.0

Identifying columns are repeated. Read all column groups together for the complete row specification.

Weld-neck flange construction dimensions / column group 2 of 2

Bolt circle k mm	Bolt hole count	Mass kg	Minimum thickness b mm	Nominal pipe size inch	Raised face diameter g mm	pattern	series	Weld bevel diameter a mm
60.3	4.0	0.51	9.6	1/2	34.9	ASTM/ASME A/SA182 - 150LBS	Confirm	21.3
69.9	4.0	0.73	11.2	3/4	42.9	ASTM/ASME A/SA182 - 150LBS	Confirm	26.7
79.4	4.0	1.07	12.7	1	50.8	ASTM/ASME A/SA182 - 150LBS	Confirm	33.4
88.9	4.0	1.4	14.3	1-1/4	63.5	ASTM/ASME A/SA182 - 150LBS	Confirm	42.2
98.4	4.0	1.81	15.9	1-1/2	73.0	ASTM/ASME A/SA182 - 150LBS	Confirm	48.3
120.7	4.0	2.59	17.5	2	92.1	ASTM/ASME A/SA182 - 150LBS	Confirm	60.3
139.7	4.0	4.28	20.7	2-1/2	104.8	ASTM/ASME A/SA182 - 150LBS	Confirm	73.0
152.4	4.0	5.18	22.3	3	127.0	ASTM/ASME A/SA182 - 150LBS	Confirm	88.9
177.8	8.0	5.45	22.3	3-1/2	139.7	ASTM/ASME A/SA182 - 150LBS	Confirm	101.6
190.5	8.0	7.32	22.3	4	157.2	ASTM/ASME A/SA182 - 150LBS	Confirm	114.3
215.9	8.0	8.91	22.3	5	185.7	ASTM/ASME A/SA182 - 150LBS	Confirm	141.3
241.3	8.0	11.26	23.9	6	215.9	ASTM/ASME A/SA182 - 150LBS	Confirm	168.3
298.5	8.0	17.68	27.0	8	269.9	ASTM/ASME A/SA182 - 150LBS	Confirm	219.1
362.0	12.0	24.79	28.6	10	323.8	ASTM/ASME A/SA182 - 150LBS	Confirm	273.0

Weld-neck flange construction dimensions / column group 2 of 2

Bolt circle k mm	Bolt hole count	Mass kg	Minimum thickness b mm	Nominal pipe size inch	Raised face diameter g mm	pattern	series	Weld bevel diameter a mm
431.8	12.0	38.98	30.2	12	381.0	ASTM/ASME A/SA182 - 150LBS	Confirm	323.8
476.3	12.0	51.71	33.4	14	412.8	ASTM/ASME A/SA182 - 150LBS	Confirm	355.6
539.8	16.0	64.41	35.0	16	469.9	ASTM/ASME A/SA182 - 150LBS	Confirm	406.4
577.9	16.0	74.84	38.1	18	533.4	ASTM/ASME A/SA182 - 150LBS	Confirm	457.0
635.0	20.0	89.36	41.3	20	584.2	ASTM/ASME A/SA182 - 150LBS	Confirm	508.0
749.3	20.0	119.66	46.1	24	692.2	ASTM/ASME A/SA182 - 150LBS	Confirm	610.0
806.4	24.0	150.17	66.7	26	749.0	ASTM/ASME A/SA182 - 150LBS	A	660.4
744.5	36.0	63.2	39.8	26	711.0	ASTM/ASME A/SA182 - 150LBS	B	661.9
863.6	28.0	171.36	69.9	28	800.0	ASTM/ASME A/SA182 - 150LBS	A	711.2
795.3	40.0	72.9	43.0	28	762.0	ASTM/ASME A/SA182 - 150LBS	B	712.7
914.4	28.0	200.22	73.1	30	857.0	ASTM/ASME A/SA182 - 150LBS	A	762.0
846.1	44.0	79.8	43.0	30	813.0	ASTM/ASME A/SA182 - 150LBS	B	763.5
977.9	28.0	250.06	79.4	32	914.0	ASTM/ASME A/SA182 - 150LBS	A	812.8
900.1	48.0	91.4	44.6	32	864.0	ASTM/ASME A/SA182 - 150LBS	B	814.3
1028.7	32.0	267.72	81.0	34	965.0	ASTM/ASME A/SA182 - 150LBS	A	863.6
957.3	40.0	109.7	47.7	34	921.0	ASTM/ASME A/SA182 - 150LBS	B	865.1
1085.8	32.0	316.3	88.9	36	1022.0	ASTM/ASME A/SA182 - 150LBS	A	914.4
1009.6	44.0	124.5	50.9	36	972.0	ASTM/ASME A/SA182 - 150LBS	B	915.9
1149.4	32.0	352.11	85.8	38	1073.0	ASTM/ASME A/SA182 - 150LBS	A	965.2
1070.0	40.0	146.3	52.5	38	1022.0	ASTM/ASME A/SA182 - 150LBS	B	968.2
1200.2	36.0	379.8	88.9	40	1124.0	ASTM/ASME A/SA182 - 150LBS	A	1016.0

Weld-neck flange construction dimensions / column group 2 of 2

Bolt circle k mm	Bolt hole count	Mass kg	Minimum thickness b mm	Nominal pipe size inch	Raised face diameter g mm	pattern	series	Weld bevel diameter a mm
1120.8	44.0	159.3	54.1	40	1080.0	ASTM/ASME A/SA182 - 150LBS	B	1019.0
1257.3	36.0	435.33	95.3	42	1194.0	ASTM/ASME A/SA182 - 150LBS	A	1066.8
1171.6	48.0	175.3	57.3	42	1130.0	ASTM/ASME A/SA182 - 150LBS	B	1069.8
1314.4	40.0	484.15	100.1	44	1245.0	ASTM/ASME A/SA182 - 150LBS	A	1117.6
1222.4	52.0	187.9	58.9	44	1181.0	ASTM/ASME A/SA182 - 150LBS	B	1120.6
1365.2	40.0	518.15	101.6	46	1295.0	ASTM/ASME A/SA182 - 150LBS	A	1168.4
1284.3	40.0	220.3	60.4	46	1235.0	ASTM/ASME A/SA182 - 150LBS	B	1171.4
1422.4	44.0	572.87	106.4	48	1359.0	ASTM/ASME A/SA182 - 150LBS	A	1219.2
1335.1	44.0	239.5	63.6	48	1289.0	ASTM/ASME A/SA182 - 150LBS	B	1222.2
66.7	4.0	0.78	12.7	1/2	34.9	ASTM/ASME A/SA182 - 300LBS	Confirm	21.3
82.6	4.0	1.34	14.3	3/4	42.9	ASTM/ASME A/SA182 - 300LBS	Confirm	26.7
88.9	4.0	1.64	15.9	1	50.8	ASTM/ASME A/SA182 - 300LBS	Confirm	33.4
98.4	4.0	2.06	17.5	1-1/4	63.5	ASTM/ASME A/SA182 - 300LBS	Confirm	42.2
114.3	4.0	3.06	19.1	1-1/2	73.0	ASTM/ASME A/SA182 - 300LBS	Confirm	48.3
127.0	8.0	3.4	20.7	2	92.1	ASTM/ASME A/SA182 - 300LBS	Confirm	60.3
149.2	8.0	5.31	23.9	2-1/2	104.8	ASTM/ASME A/SA182 - 300LBS	Confirm	73.0
168.3	8.0	7.32	27.0	3	127.0	ASTM/ASME A/SA182 - 300LBS	Confirm	88.9
184.2	8.0	8.17	28.6	3-1/2	139.7	ASTM/ASME A/SA182 - 300LBS	Confirm	101.6
200.0	8.0	11.3	30.2	4	157.2	ASTM/ASME A/SA182 - 300LBS	Confirm	114.3
235.0	8.0	15.12	33.4	5	185.7	ASTM/ASME A/SA182 - 300LBS	Confirm	141.3
269.9	12.0	19.68	35.0	6	215.9	ASTM/ASME A/SA182 - 300LBS	Confirm	168.3

Weld-neck flange construction dimensions / column group 2 of 2

Bolt circle k mm	Bolt hole count	Mass kg	Minimum thickness b mm	Nominal pipe size inch	Raised face diameter g mm	pattern	series	Weld bevel diameter a mm
330.2	12.0	30.48	39.7	8	269.9	ASTM/ASME A/SA182 - 300LBS	Confirm	219.1
387.4	16.0	43.74	46.1	10	323.8	ASTM/ASME A/SA182 - 300LBS	Confirm	273.0
450.8	16.0	64.41	49.3	12	381.0	ASTM/ASME A/SA182 - 300LBS	Confirm	323.8
514.4	20.0	88.3	52.4	14	412.8	ASTM/ASME A/SA182 - 300LBS	Confirm	355.6
571.5	20.0	112.94	55.6	16	469.9	ASTM/ASME A/SA182 - 300LBS	Confirm	406.4
628.6	24.0	138.34	58.8	18	533.4	ASTM/ASME A/SA182 - 300LBS	Confirm	457.0
685.8	24.0	167.37	62.0	20	584.2	ASTM/ASME A/SA182 - 300LBS	Confirm	508.0
812.8	24.0	235.41	68.3	24	692.2	ASTM/ASME A/SA182 - 300LBS	Confirm	610.0
876.3	28.0	283.4	77.8	26	749.0	ASTM/ASME A/SA182 - 300LBS	A	660.4
803.3	32.0	185.0	87.4	26	737.0	ASTM/ASME A/SA182 - 300LBS	B	665.2
939.8	28.0	343.2	84.2	28	800.0	ASTM/ASME A/SA182 - 300LBS	A	711.2
857.2	36.0	202.5	87.4	28	787.0	ASTM/ASME A/SA182 - 300LBS	B	716.0
997.0	28.0	395.3	90.5	30	857.0	ASTM/ASME A/SA182 - 300LBS	A	762.0
920.8	36.0	246.2	92.1	30	845.0	ASTM/ASME A/SA182 - 300LBS	B	768.4
1054.1	28.0	455.0	96.9	32	914.0	ASTM/ASME A/SA182 - 300LBS	A	812.8
977.9	32.0	302.1	101.6	32	902.0	ASTM/ASME A/SA182 - 300LBS	B	819.2
1104.9	28.0	511.5	100.1	34	965.0	ASTM/ASME A/SA182 - 300LBS	A	863.6
1031.9	36.0	324.4	101.6	34	953.0	ASTM/ASME A/SA182 - 300LBS	B	870.0
1168.4	32.0	568.2	103.2	36	1022.0	ASTM/ASME A/SA182 - 300LBS	A	914.4
1089.0	32.0	363.9	101.6	36	1010.0	ASTM/ASME A/SA182 - 300LBS	B	920.8
1139.8	36.0	407.4	109.6	38	1060.0	ASTM/ASME A/SA182 - 300LBS	B	971.6

Weld-neck flange construction dimensions / column group 2 of 2

Bolt circle k mm	Bolt hole count	Mass kg	Minimum thickness b mm	Nominal pipe size inch	Raised face diameter g mm	pattern	series	Weld bevel diameter a mm
1190.6	40.0	440.3	114.3	40	1114.0	ASTM/ASME A/SA182 - 300LBS	B	1022.4
1244.6	36.0	489.9	117.5	42	1168.0	ASTM/ASME A/SA182 - 300LBS	B	1074.7
1295.4	40.0	541.1	125.5	44	1219.0	ASTM/ASME A/SA182 - 300LBS	B	1125.5
1365.2	36.0	637.0	127.0	46	1270.0	ASTM/ASME A/SA182 - 300LBS	B	1176.3
1416.0	40.0	656.8	127.0	48	1327.0	ASTM/ASME A/SA182 - 300LBS	B	1227.1

Identifying columns are repeated. Read all column groups together for the complete row specification.

Weld-neck flange construction dimensions with large-bore series kept separate. Confirm material grade and the applicable current dimensional and pressure-temperature standard. The printed A/SA 182 reference does not establish a supplied grade or certification. Inside bore is purchaser-specified from NPS 14 upward; provide pipe schedule or bore requirement. Large-bore A/B series are not interchangeable; unresolved rows are omitted.

Application & quotation checklist

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

030 / Slip-On Stainless Steel Flanges

Specify the flange standard, size, drilling, facing and material for the mating installation.

Application: Application-led selection for the specified operating conditions.

Slip-on flange construction dimensions / column group 1 of 2

Bolt circle k mm	Bolt count	Bolt hole l mm	Bore j mm	Construction	Face g mm	Flange od mm	Hub m mm	Length h mm	Nominal pipe size inch	pattern	pipe od mm
60.3	4.0	15.9	22.3	slip-on	34.9	88.9	30.2	15.9	1/2	150 lb/sq.in.; B.S.3293	21.3
69.8	4.0	15.9	27.7	slip-on	42.9	98.4	38.1	15.9	3/4	150 lb/sq.in.; B.S.3293	26.7
79.4	4.0	15.9	34.5	slip-on	50.8	107.9	49.2	17.5	1	150 lb/sq.in.; B.S.3293	33.4
88.9	4.0	15.9	43.2	slip-on	63.5	117.5	58.7	20.6	1-1/4	150 lb/sq.in.; B.S.3293	42.2
98.4	4.0	15.9	49.5	slip-on	73.0	127.0	65.1	22.2	1-1/2	150 lb/sq.in.; B.S.3293	48.3
120.6	4.0	19.0	62.0	slip-on	92.1	152.4	77.8	25.4	2	150 lb/sq.in.; B.S.3293	60.3

Slip-on flange construction dimensions / column group 1 of 2

Bolt circle k mm	Bolt count	Bolt hole l mm	Bore j mm	Construction	Face g mm	Flange od mm	Hub m mm	Length h mm	Nominal pipe size inch	pattern	pipe od mm
139.7	4.0	19.0	74.7	slip-on	104.8	177.8	90.5	28.6	2-1/2	150 lb/sq.in.; B.S.3293	73.0
152.4	4.0	19.0	90.7	slip-on	127.0	190.5	107.9	30.2	3	150 lb/sq.in.; B.S.3293	88.9
177.8	8.0	19.0	103.4	slip-on	139.7	215.9	122.2	31.7	3-1/2	150 lb/sq.in.; B.S.3293	101.6
190.5	8.0	19.0	116.1	slip-on	157.2	228.6	134.9	33.3	4	150 lb/sq.in.; B.S.3293	114.3
215.9	8.0	22.2	143.8	slip-on	185.7	254.0	163.5	36.5	5	150 lb/sq.in.; B.S.3293	141.3
241.3	8.0	22.2	170.7	slip-on	215.9	279.4	192.1	39.7	6	150 lb/sq.in.; B.S.3293	168.3
298.4	8.0	22.2	221.5	slip-on	269.9	342.9	246.1	44.4	8	150 lb/sq.in.; B.S.3293	219.1
361.9	12.0	25.4	276.3	slip-on	323.8	406.4	304.8	49.2	10	150 lb/sq.in.; B.S.3293	273.0
431.8	12.0	25.4	327.1	slip-on	381.0	482.6	365.1	55.6	12	150 lb/sq.in.; B.S.3293	323.8
476.2	12.0	28.6	359.1	slip-on	412.9	533.4	400.0	57.1	14	150 lb/sq.in.; B.S.3293	355.6
539.7	16.0	28.6	410.5	slip-on	469.9	596.9	457.2	63.5	16	150 lb/sq.in.; B.S.3293	406.4
577.8	16.0	31.7	461.8	slip-on	533.4	635.0	504.8	68.3	18	150 lb/sq.in.; B.S.3293	457.2
635.0	20.0	31.7	513.1	slip-on	584.2	698.5	558.8	73.0	20	150 lb/sq.in.; B.S.3293	508.0
749.3	20.0	34.9	615.9	slip-on	692.1	812.8	663.6	82.5	24	150 lb/sq.in.; B.S.3293	609.6
806.4	24.0	34.9	Confirm	slip-on	742.9	869.9	723.9	85.7	26	150 lb/sq.in.; B.S.3293	660.4
863.6	28.0	34.9	717.6	slip-on	793.7	927.1	781.0	87.3	28	150 lb/sq.in.; B.S.3293	711.2
914.4	28.0	34.9	768.3	slip-on	857.2	984.2	831.8	88.9	30	150 lb/sq.in.; B.S.3293	762.0
977.9	28.0	41.3	819.1	slip-on	908.0	1060.4	889.0	92.1	32	150 lb/sq.in.; B.S.3293	812.8
1028.7	32.0	41.3	869.9	slip-on	958.8	1111.2	939.8	93.7	34	150 lb/sq.in.; B.S.3293	863.6
1085.8	32.0	41.3	920.7	slip-on	1022.3	1168.4	996.9	95.2	36	150 lb/sq.in.; B.S.3293	914.4
1149.3	32.0	41.3	971.5	slip-on	1073.1	1238.2	1060.4	95.2	38	150 lb/sq.in.; B.S.3293	965.2

Slip-on flange construction dimensions / column group 1 of 2

Bolt circle k mm	Bolt count	Bolt hole l mm	Bore j mm	Construction	Face g mm	Flange od mm	Hub m mm	Length h mm	Nominal pipe size inch	pattern	pipe od mm
1200.5	36.0	41.3	1022.3	slip-on	1123.9	1289.0	1111.2	98.4	40	150 lb/sq.in.; B.S.3293	1016.0
1257.3	36.0	41.3	1073.1	slip-on	1193.8	1346.2	1168.4	101.6	42	150 lb/sq.in.; B.S.3293	1066.8
1314.4	40.0	41.3	1123.9	slip-on	1244.6	1403.36	1219.2	101.6	44	150 lb/sq.in.; B.S.3293	1117.6
1365.2	40.0	41.3	1174.7	slip-on	1295.4	1454.1	1270.0	103.2	46	150 lb/sq.in.; B.S.3293	1168.4
1422.4	44.0	41.3	1225.5	slip-on	1358.9	1511.1	1327.1	104.8	48	150 lb/sq.in.; B.S.3293	1219.2
66.7	4.0	15.9	22.3	slip-on	34.9	95.2	38.1	22.2	1/2	300 lb/sq.in.; B.S.3293	21.3
82.5	4.0	19.0	27.7	slip-on	42.9	117.5	47.6	25.4	3/4	300 lb/sq.in.; B.S.3293	26.7
88.9	4.0	19.0	34.5	slip-on	50.8	123.8	54.0	27.0	1	300 lb/sq.in.; B.S.3293	33.4
98.4	4.0	19.0	43.2	slip-on	63.5	133.3	63.5	27.0	1-1/4	300 lb/sq.in.; B.S.3293	42.2
114.3	4.0	22.2	49.5	slip-on	73.0	155.6	69.8	30.2	1-1/2	300 lb/sq.in.; B.S.3293	48.3
127.0	8.0	19.0	62.0	slip-on	92.1	165.1	84.1	Confirm	2	300 lb/sq.in.; B.S.3293	60.3
149.2	8.0	22.2	74.7	slip-on	104.8	190.5	100.0	38.1	2-1/2	300 lb/sq.in.; B.S.3293	73.0
168.3	8.0	22.2	90.7	slip-on	127.0	209.5	117.5	42.9	3	300 lb/sq.in.; B.S.3293	88.9
184.1	8.0	22.2	103.4	slip-on	139.7	228.6	133.3	44.4	3-1/2	300 lb/sq.in.; B.S.3293	101.6
200.0	8.0	22.2	116.1	slip-on	157.2	254.0	146.0	47.6	4	300 lb/sq.in.; B.S.3293	114.3
234.9	8.0	22.2	143.8	slip-on	185.7	279.4	177.8	50.8	5	300 lb/sq.in.; B.S.3293	141.3
269.9	12.0	22.2	170.7	slip-on	215.9	317.5	206.4	52.4	6	300 lb/sq.in.; B.S.3293	168.3
330.2	12.0	25.4	221.5	slip-on	269.9	381.0	260.3	61.9	8	300 lb/sq.in.; B.S.3293	219.1
387.3	16.0	28.6	276.3	slip-on	323.8	444.5	320.7	66.7	10	300 lb/sq.in.; B.S.3293	273.0
450.8	16.0	31.7	327.1	slip-on	381.0	520.7	374.6	73.0	12	300 lb/sq.in.; B.S.3293	323.8
514.3	20.0	31.7	359.1	slip-on	412.7	584.2	425.4	76.2	14	300 lb/sq.in.; B.S.3293	355.6

Slip-on flange construction dimensions / column group 1 of 2

Bolt circle k mm	Bolt count	Bolt hole l mm	Bore j mm	Construction	Face g mm	Flange od mm	Hub m mm	Length h mm	Nominal pipe size inch	pattern	pipe od mm
571.5	20.0	34.9	410.5	slip-on	469.9	647.7	482.6	82.5	16	300 lb/sq.in.; B.S.3293	406.4
628.6	24.0	34.9	461.8	slip-on	533.4	711.2	533.4	88.9	18	300 lb/sq.in.; B.S.3293	457.2
685.8	24.0	34.9	513.1	slip-on	584.2	774.7	587.4	95.2	20	300 lb/sq.in.; B.S.3293	508.0
812.8	24.0	41.3	615.9	slip-on	692.1	914.4	701.7	106.4	24	300 lb/sq.in.; B.S.3293	609.6
876.3	28.0	44.4	666.7	slip-on	749.3	971.5	720.7	184.1	26	300 lb/sq.in.; B.S.3293	660.4
939.8	28.0	44.4	717.6	slip-on	800.1	1035.0	774.7	196.8	28	300 lb/sq.in.; B.S.3293	711.2
996.9	28.0	47.6	768.3	slip-on	857.2	1092.2	827.1	209.5	30	300 lb/sq.in.; B.S.3293	762.0
1054.1	28.0	50.8	819.1	slip-on	914.4	1149.3	881.1	222.2	32	300 lb/sq.in.; B.S.3293	812.8
1104.9	28.0	50.8	869.9	slip-on	965.2	1206.5	936.6	231.8	34	300 lb/sq.in.; B.S.3293	863.6
1168.4	28.0	54.0	920.7	slip-on	1022.3	1270.0	990.6	241.3	36	300 lb/sq.in.; B.S.3293	914.4

Identifying columns are repeated. Read all column groups together for the complete row specification.

Slip-on flange construction dimensions / column group 2 of 2

Bolt circle k mm	Bolt count	Thickness b mm
60.3	4.0	11.1
69.8	4.0	12.7
79.4	4.0	14.3
88.9	4.0	15.9
98.4	4.0	17.5
120.6	4.0	19.0
139.7	4.0	22.2
152.4	4.0	23.8

Slip-on flange construction dimensions / column group 2 of 2

Bolt circle k mm	Bolt count	Thickness b mm
177.8	8.0	23.8
190.5	8.0	23.8
215.9	8.0	23.8
241.3	8.0	25.4
298.4	8.0	28.6
361.9	12.0	30.2
431.8	12.0	31.7
476.2	12.0	34.9
539.7	16.0	36.5
577.8	16.0	39.7
635.0	20.0	42.9
749.3	20.0	47.6
806.4	24.0	50.8
863.6	28.0	52.4
914.4	28.0	54.0
977.9	28.0	57.1
1028.7	32.0	58.7
1085.8	32.0	60.3
1149.3	32.0	60.3
1200.5	36.0	63.5
1257.3	36.0	66.7

Slip-on flange construction dimensions / column group 2 of 2

Bolt circle k mm	Bolt count	Thickness b mm
1314.4	40.0	66.7
1365.2	40.0	68.3
1422.4	44.0	69.8
66.7	4.0	14.3
82.5	4.0	15.9
88.9	4.0	17.5
98.4	4.0	19.0
114.3	4.0	20.6
127.0	8.0	22.2
149.2	8.0	25.4
168.3	8.0	28.6
184.1	8.0	30.2
200.0	8.0	31.7
234.9	8.0	34.9
269.9	12.0	36.5
330.2	12.0	41.3
387.3	16.0	47.6
450.8	16.0	50.8
514.3	20.0	54.0
571.5	20.0	57.1
628.6	24.0	60.3

Slip-on flange construction dimensions / column group 2 of 2

Bolt circle k mm	Bolt count	Thickness b mm
685.8	24.0	63.5
812.8	24.0	69.8
876.3	28.0	79.4
939.8	28.0	85.7
996.9	28.0	92.1
1054.1	28.0	98.4
1104.9	28.0	101.6
1168.4	28.0	104.8

Identifying columns are repeated. Read all column groups together for the complete row specification.

Slip-on flange construction dimensions for the printed 150/300 pattern references. The B.S.3293 pattern labels do not establish current certification or allowable pressure. Specify material grade, face and design conditions. Ambiguous weights and inconsistent dimensions are omitted; confirm the final drawing before fabrication or supply.

Application & quotation checklist

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

031 / Blind stainless steel flanges

Specify the flange standard, size, drilling, facing and material for the mating installation.

Application: Application-led selection for the specified operating conditions.

Application & quotation checklist

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

This family is specified to the required application and configuration. The quotation confirms the selected material, dimensions and operating rating; no universal rating is implied for every option.

032 / Threaded stainless steel flanges

Specify the flange standard, size, drilling, facing and material for the mating installation.

Application: Application-led selection for the specified operating conditions.

[Application & quotation checklist](#)

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

This family is specified to the required application and configuration. The quotation confirms the selected material, dimensions and operating rating; no universal rating is implied for every option.

033 / Socket-weld stainless steel flanges

Specify the flange standard, size, drilling, facing and material for the mating installation.

Application: Application-led selection for the specified operating conditions.

[Application & quotation checklist](#)

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

This family is specified to the required application and configuration. The quotation confirms the selected material, dimensions and operating rating; no universal rating is implied for every option.

034 / Lap-joint stainless steel flanges

Specify the flange standard, size, drilling, facing and material for the mating installation.

Application: Application-led selection for the specified operating conditions.

[Application & quotation checklist](#)

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

This family is specified to the required application and configuration. The quotation confirms the selected material, dimensions and operating rating; no universal rating is implied for every option.

035 / EN 1092-1 Stainless Steel Flanges

Specify the flange standard, size, drilling, facing and material for the mating installation.

Application: Application-led selection for the specified operating conditions.

[EN1092-1 flange dimensions / column group 1 of 2](#)

Nominal bore (mm)	Class / table designation	Flange outside diameter D (mm)	Flange thickness b (mm)	Raised-face diameter d2 (mm)	Raised-face height f (mm)	Bolt holes	Hole diameter d1 (mm)
15	PN 6	80	12	40	2	4	11

EN1092-1 flange dimensions / column group 1 of 2

Nominal bore (mm)	Class / table designation	Flange outside diameter D (mm)	Flange thickness b (mm)	Raised-face diameter d2 (mm)	Raised-face height f (mm)	Bolt holes	Hole diameter d1 (mm)
15	PN 10	95	14	45	2	4	14
15	PN 16	95	14	45	2	4	14
15	PN 25	95	14	45	2	4	14
15	PN 40	95	14	45	2	4	14
20	PN 6	90	14	50	2	4	11
20	PN 10	105	16	58	2	4	14
20	PN 16	105	16	58	2	4	14
20	PN 25	105	16	58	2	4	14
20	PN 40	105	16	58	2	4	14
25	PN 6	100	14	60	2	4	11
25	PN 10	115	16	68	2	4	14
25	PN 16	115	16	68	2	4	14
25	PN 25	115	16	68	2	4	14
25	PN 40	115	16	68	2	4	14
32	PN 6	120	16	70	2	4	14
32	PN 10	140	18	78	2	4	18
32	PN 16	140	18	78	2	4	18
32	PN 25	140	18	78	2	4	18
32	PN 40	140	18	78	2	4	18
40	PN 6	130	16	80	3	4	14
40	PN 10	150	18	88	3	4	18

EN1092-1 flange dimensions / column group 1 of 2

Nominal bore (mm)	Class / table designation	Flange outside diameter D (mm)	Flange thickness b (mm)	Raised-face diameter d2 (mm)	Raised-face height f (mm)	Bolt holes	Hole diameter d1 (mm)
40	PN 16	150	18	88	3	4	18
40	PN 25	150	18	88	3	4	18
40	PN 40	150	18	88	3	4	18
50	PN 6	140	16	90	3	4	14
50	PN 10	165	20	102	3	4	18
50	PN 16	165	20	102	3	4	18
50	PN 25	165	20	102	3	4	18
50	PN 40	165	20	102	3	4	18
65	PN 6	160	16	110	3	4	14
65	PN 10	185	20	122	3	4	18
65	PN 16	185	20	122	3	8	18
65	PN 25	185	22	122	3	8	18
65	PN 40	185	22	122	3	8	18
80	PN 6	190	18	128	3	4	18
80	PN 10	200	20	138	3	8	18
80	PN 16	200	20	138	3	8	18
80	PN 25	200	24	138	3	8	18
80	PN 40	200	24	138	3	8	18
100	PN 6	210	18	148	3	4	18
100	PN 10	220	22	158	3	8	18
100	PN 16	220	22	158	3	8	18

EN1092-1 flange dimensions / column group 1 of 2

Nominal bore (mm)	Class / table designation	Flange outside diameter D (mm)	Flange thickness b (mm)	Raised-face diameter d2 (mm)	Raised-face height f (mm)	Bolt holes	Hole diameter d1 (mm)
100	PN 25	235	26	162	3	8	22
100	PN 40	235	26	162	3	8	22
125	PN 6	240	20	178	3	8	18
125	PN 10	250	22	188	3	8	18
125	PN 16	250	22	188	3	8	18
125	PN 25	270	28	188	3	8	26
125	PN 40	270	28	188	3	8	26
150	PN 6	265	20	202	3	8	18
150	PN 10	285	24	212	3	8	22
150	PN 16	285	24	212	3	8	22
150	PN 25	300	30	218	3	8	26
150	PN 40	300	30	218	3	8	26
200	PN 6	320	22	258	3	8	18
200	PN 10	340	24	268	3	8	22
200	PN 16	340	26	268	3	12	22
200	PN 25	360	32	278	3	12	26
200	PN 40	375	36	285	3	12	30
250	PN 6	375	24	312	3	12	18
250	PN 10	395	26	320	3	12	22
250	PN 16	405	29	320	3	12	26
250	PN 25	425	35	335	3	12	30

EN1092-1 flange dimensions / column group 1 of 2

Nominal bore (mm)	Class / table designation	Flange outside diameter D (mm)	Flange thickness b (mm)	Raised-face diameter d2 (mm)	Raised-face height f (mm)	Bolt holes	Hole diameter d1 (mm)
250	PN 40	450	42	345	3	12	33
300	PN 6	440	24	365	4	12	22
300	PN 10	445	26	370	4	12	22
300	PN 16	460	32	378	4	12	26
300	PN 25	485	38	395	4	16	30
300	PN 40	515	52	410	4	16	33
350	PN 6	490	26	415	4	12	22
350	PN 10	505	30	430	4	16	22
350	PN 16	520	35	438	4	16	26
350	PN 25	555	42	450	4	16	33
350	PN 40	580	58	465	4	16	36
400	PN 6	540	28	465	4	16	22
400	PN 10	565	32	482	4	16	26
400	PN 16	580	38	490	4	16	30
400	PN 25	620	48	505	4	16	36
400	PN 40	660	65	535	4	16	39
450	PN 6	595	30	520	4	16	22
450	PN 10	615	36	532	4	20	26
450	PN 16	640	42	550	4	20	30
450	PN 25	670	54	555	4	20	36
450	PN 40	685	68	560	4	20	39

EN1092-1 flange dimensions / column group 1 of 2

Nominal bore (mm)	Class / table designation	Flange outside diameter D (mm)	Flange thickness b (mm)	Raised-face diameter d2 (mm)	Raised-face height f (mm)	Bolt holes	Hole diameter d1 (mm)
500	PN 6	645	30	570	4	20	22
500	PN 10	670	38	585	4	20	26
500	PN 16	715	46	610	4	20	33
500	PN 25	730	58	615	4	20	36
500	PN 40	755	72	615	4	20	42
600	PN 6	755	32	670	5	20	26
600	PN 10	780	42	685	5	20	30
600	PN 16	840	55	725	5	20	36
600	PN 25	845	68	720	5	20	39
600	PN 40	890	90	735	5	20	48
700	PN 6	860	40	775	5	24	26
700	PN 10	895	50	800	5	24	30
700	PN 16	910	63	795	5	24	36
700	PN 25	960	85	820	5	24	42
700	PN 40	995	96	840	5	24	48
800	PN 6	975	44	880	5	24	30
800	PN 10	1015	56	905	5	24	33
800	PN 16	1025	74	900	5	24	39
800	PN 25	1085	95	930	5	24	48
800	PN 40	1140	108	960	5	24	56
900	PN 6	1075	48	980	5	24	30

EN1092-1 flange dimensions / column group 1 of 2

Nominal bore (mm)	Class / table designation	Flange outside diameter D (mm)	Flange thickness b (mm)	Raised-face diameter d2 (mm)	Raised-face height f (mm)	Bolt holes	Hole diameter d1 (mm)
900	PN 10	1115	62	1005	5	28	33
900	PN 16	1125	82	1000	5	28	39
900	PN 25	1185	90	1030	5	28	48
900	PN 40	1250	120	1070	5	28	56
1000	PN 6	1175	52	1080	5	28	30
1000	PN 10	1230	70	1110	5	28	36
1000	PN 16	1255	90	1115	5	28	42
1000	PN 25	1320	98	1140	5	28	56
1000	PN 40	1360	132	1080	5	28	56
1200	PN 6	1405	60	1295	5	32	33
1200	PN 10	1455	83	1330	5	32	39
1200	PN 16	1485	94	1390	5	32	48
1200	PN 25	1530	116	1350	5	32	56
1200	PN 40	1575	154	1380	5	32	62

Identifying columns are repeated. Read all column groups together for the complete row specification.

EN1092-1 flange dimensions / column group 2 of 2

Nominal bore (mm)	Class / table designation	Bolt size	Bolt circle PCD (mm)	Reference mass (kg)	Standard reference
15	PN 6	M10	55	0.4	EN1092-1
15	PN 10	M12	65	0.67	EN1092-1
15	PN 16	M12	65	0.67	EN1092-1
15	PN 25	M12	65	0.67	EN1092-1

EN1092-1 flange dimensions / column group 2 of 2

Nominal bore (mm)	Class / table designation	Bolt size	Bolt circle PCD (mm)	Reference mass (kg)	Standard reference
15	PN 40	M12	65	0.67	EN1092-1
20	PN 6	M10	65	0.58	EN1092-1
20	PN 10	M12	75	0.93	EN1092-1
20	PN 16	M12	75	0.93	EN1092-1
20	PN 25	M12	75	0.93	EN1092-1
20	PN 40	M12	75	0.93	EN1092-1
25	PN 6	M10	75	0.69	EN1092-1
25	PN 10	M12	85	1.11	EN1092-1
25	PN 16	M12	85	1.11	EN1092-1
25	PN 25	M12	85	1.11	EN1092-1
25	PN 40	M12	85	1.11	EN1092-1
32	PN 6	M10	90	1.14	EN1092-1
32	PN 10	M12	100	1.8	EN1092-1
32	PN 16	M12	100	1.8	EN1092-1
32	PN 25	M12	100	1.8	EN1092-1
32	PN 40	M12	100	1.8	EN1092-1
40	PN 6	M12	100	1.34	EN1092-1
40	PN 10	M16	110	2.1	EN1092-1
40	PN 16	M16	110	2.1	EN1092-1
40	PN 25	M16	110	2.1	EN1092-1
40	PN 40	M16	110	2.1	EN1092-1

EN1092-1 flange dimensions / column group 2 of 2

Nominal bore (mm)	Class / table designation	Bolt size	Bolt circle PCD (mm)	Reference mass (kg)	Standard reference
50	PN 6	M12	110	1.48	EN1092-1
50	PN 10	M16	125	2.72	EN1092-1
50	PN 16	M16	125	2.72	EN1092-1
50	PN 25	M16	125	2.72	EN1092-1
50	PN 40	M16	125	2.72	EN1092-1
65	PN 6	M12	130	1.85	EN1092-1
65	PN 10	M16	145	3.64	EN1092-1
65	PN 16	M16	145	3.64	EN1092-1
65	PN 25	M16	145	3.64	EN1092-1
65	PN 40	M16	145	3.64	EN1092-1
80	PN 6	M16	150	2.95	EN1092-1
80	PN 10	M16	160	3.61	EN1092-1
80	PN 16	M16	160	3.61	EN1092-1
80	PN 25	M16	160	4.33	EN1092-1
80	PN 40	M16	160	4.33	EN1092-1
100	PN 6	M16	170	3.25	EN1092-1
100	PN 10	M16	180	4.8	EN1092-1
100	PN 16	M16	180	4.8	EN1092-1
100	PN 25	M20	190	6.04	EN1092-1
100	PN 40	M20	190	6.04	EN1092-1
125	PN 6	M16	200	4.33	EN1092-1

EN1092-1 flange dimensions / column group 2 of 2

Nominal bore (mm)	Class / table designation	Bolt size	Bolt circle PCD (mm)	Reference mass (kg)	Standard reference
125	PN 10	M16	210	5.42	EN1092-1
125	PN 16	M16	210	5.42	EN1092-1
125	PN 25	M24	220	8.21	EN1092-1
125	PN 40	M24	220	8.21	EN1092-1
150	PN 6	M16	225	4.86	EN1092-1
150	PN 10	M20	240	7.5	EN1092-1
150	PN 16	M20	240	7.5	EN1092-1
150	PN 25	M24	250	10.42	EN1092-1
150	PN 40	M24	250	10.42	EN1092-1
200	PN 6	M16	280	6.91	EN1092-1
200	PN 10	M20	295	9.3	EN1092-1
200	PN 16	M20	295	10.3	EN1092-1
200	PN 25	M24	310	14.4	EN1092-1
200	PN 40	M27	320	18.3	EN1092-1
250	PN 6	M16	335	9.03	EN1092-1
250	PN 10	M20	350	11.95	EN1092-1
250	PN 16	M24	355	14.79	EN1092-1
250	PN 25	M27	370	20.43	EN1092-1
250	PN 40	M30	384	29.44	EN1092-1
300	PN 6	M20	395	11.95	EN1092-1
300	PN 10	M20	400	13.66	EN1092-1

EN1092-1 flange dimensions / column group 2 of 2

Nominal bore (mm)	Class / table designation	Bolt size	Bolt circle PCD (mm)	Reference mass (kg)	Standard reference
300	PN 16	M24	410	19.2	EN1092-1
300	PN 25	M27	430	26.66	EN1092-1
300	PN 40	M30	450	45.56	EN1092-1
350	PN 6	M20	445	16.88	EN1092-1
350	PN 10	M20	460	23.48	EN1092-1
350	PN 16	M24	470	28.34	EN1092-1
350	PN 25	M30	490	41.84	EN1092-1
350	PN 40	M33	510	67.65	EN1092-1
400	PN 6	M20	495	19.97	EN1092-1
400	PN 10	M24	515	27.65	EN1092-1
400	PN 16	M27	525	36.4	EN1092-1
400	PN 25	M33	550	58.6	EN1092-1
400	PN 40	M36	585	98	EN1092-1
450	PN 6	M20	550	25.28	EN1092-1
450	PN 10	M24	565	34.16	EN1092-1
450	PN 16	M27	585	46.8	EN1092-1
450	PN 25	M33	600	70.8	EN1092-1
450	PN 40	M36	610	95.55	EN1092-1
500	PN 6	M20	600	27.03	EN1092-1
500	PN 10	M24	620	41.03	EN1092-1
500	PN 16	M30	650	65.3	EN1092-1

EN1092-1 flange dimensions / column group 2 of 2

Nominal bore (mm)	Class / table designation	Bolt size	Bolt circle PCD (mm)	Reference mass (kg)	Standard reference
500	PN 25	M33	660	88.2	EN1092-1
500	PN 40	M39	670	121.8	EN1092-1
600	PN 6	M24	705	35.87	EN1092-1
600	PN 10	M27	725	55.85	EN1092-1
600	PN 16	M33	770	104	EN1092-1
600	PN 25	M36	770	129.5	EN1092-1
600	PN 40	M45	795	207	EN1092-1
700	PN 6	M24	810	53.1	EN1092-1
700	PN 10	M27	840	84	EN1092-1
700	PN 16	M33	840	113	EN1092-1
700	PN 25	M39	875	195	EN1092-1
700	PN 40	M45	900	251.28	EN1092-1
800	PN 6	M27	920	72	EN1092-1
800	PN 10	M30	950	118	EN1092-1
800	PN 16	M36	950	161	EN1092-1
800	PN 25	M45	990	270	EN1092-1
800	PN 40	M52	1030	372.62	EN1092-1
900	PN 6	M27	1020	87.1	EN1092-1
900	PN 10	M30	1050	136.77	EN1092-1
900	PN 16	M36	1050	187.42	EN1092-1
900	PN 25	M45	1090	268.55	EN1092-1

EN1092-1 flange dimensions / column group 2 of 2

Nominal bore (mm)	Class / table designation	Bolt size	Bolt circle PCD (mm)	Reference mass (kg)	Standard reference
900	PN 40	M52	1140	469.85	EN1092-1
1000	PN 6	M27	1120	102	EN1092-1
1000	PN 10	M33	1160	190	EN1092-1
1000	PN 16	M39	1170	271	EN1092-1
1000	PN 25	M52	1210	376.2	EN1092-1
1000	PN 40	M52	1250	593.72	EN1092-1
1200	PN 6	M30	1340	164	EN1092-1
1200	PN 10	M36	1380	294	EN1092-1
1200	PN 16	M45	1390	368.13	EN1092-1
1200	PN 25	M52	1420	531.21	EN1092-1
1200	PN 40	M56	1460	817.61	EN1092-1

Identifying columns are repeated. Read all column groups together for the complete row specification.

Flange drilling and dimensional references for the selected standard, nominal bore and class. Specify the flange construction, face, material grade and design temperature. A PN, class or table designation alone does not establish an allowable working pressure for every material and temperature. Blank dimensions are not confirmed available configurations.

Application & quotation checklist

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

036 / SANS 1123 flanges

Specify the flange standard, size, drilling, facing and material for the mating installation.

Application: Application-led selection for the specified operating conditions.

SANS1123 flange dimensions / column group 1 of 2

Nominal bore (mm)	Class / table designation	Flange outside diameter D (mm)	Flange thickness b (mm)	Raised-face diameter d2 (mm)	Raised-face height f (mm)	Bolt holes	Hole diameter d1 (mm)
15	600/3	80	10	40	2	4	11
15	1000/3	95	10	45	2	4	14
15	1600/3	95	10	45	2	4	14
15	2500/3	95	14	45	2	4	14
15	4000/3	95	14	45	2	4	14
20	600/3	90	10	50	2	4	11
20	1000/3	105	10	58	2	4	14
20	1600/3	105	10	58	2	4	14
20	2500/3	105	14	58	2	4	14
20	4000/3	105	14	58	2	4	14
25	600/3	100	10	60	2	4	11
25	1000/3	115	10	68	2	4	14
25	1600/3	115	10	68	2	4	14
25	2500/3	115	16	68	2	4	14
25	4000/3	115	16	68	2	4	14
32	600/3	120	10	70	2	4	14
32	1000/3	140	10	78	2	4	18
32	1600/3	140	10	78	2	4	18
32	2500/3	140	18	78	2	4	18
32	4000/3	140	18	78	2	4	18
40	600/3	130	10	80	3	4	14

SANS1123 flange dimensions / column group 1 of 2

Nominal bore (mm)	Class / table designation	Flange outside diameter D (mm)	Flange thickness b (mm)	Raised-face diameter d2 (mm)	Raised-face height f (mm)	Bolt holes	Hole diameter d1 (mm)
40	1000/3	150	10	88	3	4	18
40	1600/3	150	10	88	3	4	18
40	2500/3	150	20	88	3	4	18
40	4000/3	150	20	88	3	4	18
50	600/3	140	10	90	3	4	14
50	1000/3	165	10	102	3	4	18
50	1600/3	165	12	102	3	4	18
50	2500/3	165	20	102	3	4	18
50	4000/3	165	20	102	3	4	18
65	600/3	160	10	110	3	4	14
65	1000/3	185	12	122	3	4	18
65	1600/3	185	12	122	3	4	18
65	2500/3	185	22	122	3	8	18
65	4000/3	185	22	122	3	8	18
80	600/3	190	10	128	3	4	18
80	1000/3	200	12	138	3	8	18
80	1600/3	200	14	138	3	8	18
80	2500/3	200	22	138	3	8	18
80	4000/3	200	22	138	3	8	18
100	600/3	210	10	148	3	4	18
100	1000/3	220	12	158	3	8	18

SANS1123 flange dimensions / column group 1 of 2

Nominal bore (mm)	Class / table designation	Flange outside diameter D (mm)	Flange thickness b (mm)	Raised-face diameter d2 (mm)	Raised-face height f (mm)	Bolt holes	Hole diameter d1 (mm)
100	1600/3	220	14	158	3	8	18
100	2500/3	235	25	162	3	8	22
100	4000/3	235	25	162	3	8	22
125	600/3	240	12	178	3	8	18
125	1000/3	250	14	188	3	8	18
125	1600/3	250	16	188	3	8	18
125	2500/3	270	28	188	3	8	26
125	4000/3	270	28	188	3	8	26
150	600/3	265	12	202	3	8	18
150	1000/3	285	16	212	3	8	22
150	1600/3	285	18	212	3	8	22
150	2500/3	300	30	218	3	8	26
150	4000/3	300	30	218	3	8	26
200	600/3	320	14	258	3	8	18
200	1000/3	340	18	268	3	8	22
200	1600/3	340	22	268	3	12	22
200	2500/3	360	28	278	3	12	26
200	4000/3	375	32	285	3	12	26
250	600/3	375	16	312	3	12	18
250	1000/3	395	20	320	3	12	22
250	1600/3	405	25	320	3	12	26

SANS1123 flange dimensions / column group 1 of 2

Nominal bore (mm)	Class / table designation	Flange outside diameter D (mm)	Flange thickness b (mm)	Raised-face diameter d2 (mm)	Raised-face height f (mm)	Bolt holes	Hole diameter d1 (mm)
250	2500/3	425	30	335	3	12	26
250	4000/3	450	38	345	3	12	33
300	600/3	440	20	365	4	12	22
300	1000/3	445	22	370	4	12	22
300	1600/3	460	28	378	4	12	26
300	2500/3	485	32	395	4	16	26
300	4000/3	515	40	410	4	16	33
350	600/3	490	22	415	4	12	22
350	1000/3	505	25	430	4	16	22
350	1600/3	520	30	438	4	16	26
350	2500/3	555	35	450	4	16	33
350	4000/3	580	45	465	4	16	33
400	600/3	540	22	465	4	16	22
400	1000/3	565	25	482	4	16	26
400	1600/3	580	35	490	4	16	26
400	2500/3	620	40	505	4	16	33
400	4000/3	660	50	535	4	16	39
450	600/3	595	25	520	4	16	22
450	1000/3	615	30	532	4	20	26
450	1600/3	640	40	550	4	20	26
450	2500/3	670	45	555	4	20	33

SANS1123 flange dimensions / column group 1 of 2

Nominal bore (mm)	Class / table designation	Flange outside diameter D (mm)	Flange thickness b (mm)	Raised-face diameter d2 (mm)	Raised-face height f (mm)	Bolt holes	Hole diameter d1 (mm)
450	4000/3	685	60	560	4	20	39
500	600/3	645	25	570	4	20	22
500	1000/3	670	32	585	4	20	26
500	1600/3	715	40	610	4	20	33
500	2500/3	730	50	615	4	20	33
500	4000/3	755	70	615	4	20	39
600	600/3	755	30	670	5	20	26
600	1000/3	780	38	685	5	20	26
600	1600/3	840	50	725	5	20	33
600	2500/3	845	60	720	5	20	39
600	4000/3	890	84	735	5	20	48
700	600/3	860	35	775	5	24	26
700	1000/3	895	45	800	5	24	26
700	1600/3	910	55	795	5	24	33
700	2500/3	960	74	820	5	24	42
700	4000/3	995	96	840	5	24	48
800	600/3	975	38	880	5	24	26
800	1000/3	1015	50	905	5	24	33
800	1600/3	1025	65	900	5	24	39
800	2500/3	1085	82	928	5	24	48
800	4000/3	1140	108	960	5	24	56

SANS1123 flange dimensions / column group 1 of 2

Nominal bore (mm)	Class / table designation	Flange outside diameter D (mm)	Flange thickness b (mm)	Raised-face diameter d2 (mm)	Raised-face height f (mm)	Bolt holes	Hole diameter d1 (mm)
900	600/3	1075	40	980	5	24	26
1000	600/3	1175	45	1080	5	28	26
1000	1000/3	1230	60	1110	5	28	33
1000	1600/3	1255	75	1115	5	28	39
1000	2500/3	1320	98	1140	5	28	56
1000	4000/3	1360	132	1180	5	28	56
1200	600/3	1405	55	1295	5	32	33
1200	1000/3	1455	70	1328	5	32	39
1200	1600/3	1485	85	1238	5	32	45
1200	2500/3	1530	116	1350	5	32	56
1200	4000/3	1575	154	1380	5	32	62

Identifying columns are repeated. Read all column groups together for the complete row specification.

SANS1123 flange dimensions / column group 2 of 2

Nominal bore (mm)	Class / table designation	Bolt size	Bolt circle PCD (mm)	Reference mass (kg)	Standard reference
15	600/3	M10	55	0.33	SANS1123
15	1000/3	M12	65	0.48	SANS1123
15	1600/3	M12	65	0.48	SANS1123
15	2500/3	M12	65	0.76	SANS1123
15	4000/3	M12	65	0.76	SANS1123
20	600/3	M10	65	0.42	SANS1123
20	1000/3	M12	75	0.58	SANS1123

SANS1123 flange dimensions / column group 2 of 2

Nominal bore (mm)	Class / table designation	Bolt size	Bolt circle PCD (mm)	Reference mass (kg)	Standard reference
20	1600/3	M12	75	0.58	SANS1123
20	2500/3	M12	75	1.04	SANS1123
20	4000/3	M12	75	1.04	SANS1123
25	600/3	M10	75	0.49	SANS1123
25	1000/3	M12	85	0.69	SANS1123
25	1600/3	M12	85	0.69	SANS1123
25	2500/3	M12	85	1.24	SANS1123
25	4000/3	M12	85	1.24	SANS1123
32	600/3	M10	90	0.71	SANS1123
32	1000/3	M12	100	1.01	SANS1123
32	1600/3	M12	100	1.01	SANS1123
32	2500/3	M12	100	1.8	SANS1123
32	4000/3	M12	100	1.8	SANS1123
40	600/3	M12	100	0.84	SANS1123
40	1000/3	M16	110	1.15	SANS1123
40	1600/3	M16	110	1.15	SANS1123
40	2500/3	M16	110	2.3	SANS1123
40	4000/3	M16	110	2.3	SANS1123
50	600/3	M12	110	0.92	SANS1123
50	1000/3	M16	125	1.36	SANS1123
50	1600/3	M16	125	1.63	SANS1123

SANS1123 flange dimensions / column group 2 of 2

Nominal bore (mm)	Class / table designation	Bolt size	Bolt circle PCD (mm)	Reference mass (kg)	Standard reference
50	2500/3	M16	125	2.72	SANS1123
50	4000/3	M16	125	2.72	SANS1123
65	600/3	M12	130	1.15	SANS1123
65	1000/3	M16	145	1.98	SANS1123
65	1600/3	M16	145	1.98	SANS1123
65	2500/3	M16	145	3.64	SANS1123
65	4000/3	M16	145	3.64	SANS1123
80	600/3	M16	150	1.64	SANS1123
80	1000/3	M16	160	2.17	SANS1123
80	1600/3	M16	160	2.64	SANS1123
80	2500/3	M16	160	3.95	SANS1123
80	4000/3	M16	160	3.95	SANS1123
100	600/3	M16	170	1.81	SANS1123
100	1000/3	M16	180	2.39	SANS1123
100	1600/3	M16	180	2.9	SANS1123
100	2500/3	M20	190	6.04	SANS1123
100	4000/3	M20	190	6.04	SANS1123
125	600/3	M16	200	2.6	SANS1123
125	1000/3	M16	210	3.45	SANS1123
125	1600/3	M16	210	4.07	SANS1123
125	2500/3	M24	220	8.21	SANS1123

SANS1123 flange dimensions / column group 2 of 2

Nominal bore (mm)	Class / table designation	Bolt size	Bolt circle PCD (mm)	Reference mass (kg)	Standard reference
125	4000/3	M24	220	8.21	SANS1123
150	600/3	M16	225	2.91	SANS1123
150	1000/3	M20	240	4.81	SANS1123
150	1600/3	M20	240	5.41	SANS1123
150	2500/3	M24	250	10.42	SANS1123
150	4000/3	M24	250	10.42	SANS1123
200	600/3	M16	280	4.4	SANS1123
200	1000/3	M20	295	6.97	SANS1123
200	1600/3	M20	295	7.51	SANS1123
200	2500/3	M24	310	12.59	SANS1123
200	4000/3	M24	320	16.96	SANS1123
250	600/3	M16	335	6.02	SANS1123
250	1000/3	M20	350	9.14	SANS1123
250	1600/3	M24	355	12.36	SANS1123
250	2500/3	M24	370	17.9	SANS1123
250	4000/3	M30	385	29.44	SANS1123
300	600/3	M20	395	9.96	SANS1123
300	1000/3	M20	400	11.65	SANS1123
300	1600/3	M24	410	16.65	SANS1123
300	2500/3	M24	430	23.16	SANS1123
300	4000/3	M30	450	43.39	SANS1123

SANS1123 flange dimensions / column group 2 of 2

Nominal bore (mm)	Class / table designation	Bolt size	Bolt circle PCD (mm)	Reference mass (kg)	Standard reference
350	600/3	M20	445	14.29	SANS1123
350	1000/3	M20	460	18.23	SANS1123
350	1600/3	M24	470	24.15	SANS1123
350	2500/3	M30	490	34.87	SANS1123
350	4000/3	M30	510	56.5	SANS1123
400	600/3	M20	495	15.69	SANS1123
400	1000/3	M24	515	21.88	SANS1123
400	1600/3	M24	525	34.13	SANS1123
400	2500/3	M30	550	49	SANS1123
400	4000/3	M36	585	74.58	SANS1123
450	600/3	M20	550	21.07	SANS1123
450	1000/3	M24	565	28.29	SANS1123
450	1600/3	M24	585	45.68	SANS1123
450	2500/3	M30	600	60	SANS1123
450	4000/3	M36	610	85	SANS1123
500	600/3	M20	600	22.52	SANS1123
500	1000/3	M24	620	34.65	SANS1123
500	1600/3	M30	650	56.51	SANS1123
500	2500/3	M30	660	77.31	SANS1123
500	4000/3	M36	670	121.5	SANS1123
600	600/3	M24	705	33.63	SANS1123

SANS1123 flange dimensions / column group 2 of 2

Nominal bore (mm)	Class / table designation	Bolt size	Bolt circle PCD (mm)	Reference mass (kg)	Standard reference
600	1000/3	M24	725	51.58	SANS1123
600	1600/3	M30	770	95.26	SANS1123
600	2500/3	M36	770	114.86	SANS1123
600	4000/3	M45	795	192.21	SANS1123
700	600/3	M24	810	46.05	SANS1123
700	1000/3	M24	840	76.23	SANS1123
700	1600/3	M30	840	98.5	SANS1123
700	2500/3	M39	875	164.4	SANS1123
700	4000/3	M45	900	253.87	SANS1123
800	600/3	M24	920	63.24	SANS1123
800	1000/3	M30	950	104.68	SANS1123
800	1600/3	M36	950	140.1	SANS1123
800	2500/3	M45	990	224.07	SANS1123
800	4000/3	M52	1030	375.34	SANS1123
900	600/3	M24	1020	74	SANS1123
1000	600/3	M24	1020	89.63	SANS1123
1000	1000/3	M30	1160	164.87	SANS1123
1000	1600/3	M36	1170	228.26	SANS1123
1000	2500/3	M52	1210	357.89	SANS1123
1000	4000/3	M52	1250	569.3	SANS1123
1200	600/3	M30	1340	150.24	SANS1123

SANS1123 flange dimensions / column group 2 of 2

Nominal bore (mm)	Class / table designation	Bolt size	Bolt circle PCD (mm)	Reference mass (kg)	Standard reference
1200	1000/3	M36	1380	246.91	SANS1123
1200	1600/3	M42	1390	337.56	SANS1123
1200	2500/3	M52	1420	357.89	SANS1123
1200	4000/3	M56	1450	813.69	SANS1123

Identifying columns are repeated. Read all column groups together for the complete row specification.

Flange drilling and dimensional references for the selected standard, nominal bore and class. Specify the flange construction, face, material grade and design temperature. A PN, class or table designation alone does not establish an allowable working pressure for every material and temperature. Blank dimensions are not confirmed available configurations.

Application & quotation checklist

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

037 / BS 10 flanges

Specify the flange standard, size, drilling, facing and material for the mating installation.

Application: Application-led selection for the specified operating conditions.

BS10 flange dimensions / column group 1 of 2

Nominal bore (mm)	Class / table designation	Flange outside diameter D (mm)	Flange thickness b (mm)	Bolt holes	Hole diameter d1 (mm)	Bolt size	Bolt circle PCD (mm)	Reference mass (kg)
15	T/D	95.3	4.8	4	14.3	M12	66.7	0.42
15	T/E	95.3	6.3	4	14.3	M12	66.7	0.42
20	T/D	101.6	9.5	4	14.2	M12	73	0.53
20	T/E	101.6	9.5	4	14.2	M12	73	0.53
25	T/D	114.3	4.8	4	14.3	M12	82.6	0.7
25	T/E	114.3	7.1	4	14.3	M12	82.6	0.7
32	T/D	120.7	6.3	4	14.2	M12	87.3	0.8

BS10 flange dimensions / column group 1 of 2

Nominal bore (mm)	Class / table designation	Flange outside diameter D (mm)	Flange thickness b (mm)	Bolt holes	Hole diameter d1 (mm)	Bolt size	Bolt circle PCD (mm)	Reference mass (kg)
32	T/E	120.7	7.9	4	14.2	M12	87.3	0.8
40	T/D	133.4	6.3	4	14.2	M12	98.4	1
40	T/E	133.4	8.7	4	18	M12	98.4	1
50	T/D	152.4	7.9	4	17.5	M16	114.3	0.88
50	T/E	152.4	9.5	4	17.5	M16	114.3	1.06
65	T/D	165.1	7.9	4	17.5	M16	127	1.3
65	T/E	165.1	10.3	4	17.5	M16	127	1.6
80	T/D	184.1	9.5	4	17.5	M16	146	1.43
80	T/E	184.1	11.1	4	17.5	M16	146	1.8
100	T/D	215.9	9.5	4	17.5	M16	177.8	2
100	T/E	215.9	13.7	8	17.5	M16	177.8	2
125	T/D	254	12.7	8	17.5	M16	209.6	3.48
125	T/E	254	14.3	8	17.5	M20	209.6	3.48
150	T/D	279.4	12.7	8	17.5	M16	235	3.88
150	T/E	279.4	17.5	8	22.2	M20	235	5.36
200	T/D	336.6	12.7	8	17.5	M16	292.1	4.91
200	T/E	336.6	19	8	22.2	M20	292.1	7.59
250	T/D	406.4	15.9	8	22.2	M20	355.6	8.7
250	T/E	406.4	22.2	12	22.2	M20	355.6	12.05
300	T/D	457.2	19	12	22.2	M20	406.4	12.05
300	T/E	457.2	25.4	12	25.4	M24	406.4	16.07

BS10 flange dimensions / column group 1 of 2

Nominal bore (mm)	Class / table designation	Flange outside diameter D (mm)	Flange thickness b (mm)	Bolt holes	Hole diameter d1 (mm)	Bolt size	Bolt circle PCD (mm)	Reference mass (kg)
350	T/D	527.1	22.2	12	25.4	M20	469.9	19.58
350	T/E	527.1	28.6	12	25.4	M24	469.9	25.89
400	T/D	577.9	22.2	12	25.4	M20	520.7	22.32
400	T/E	577.9	31.8	12	25.4	M24	520.7	32.59
450	T/D	641.4	25.4	12	25.4	M20	584.2	30.8
450	T/E	641.4	34.9	16	25.4	M20	584.2	42.86
500	T/D	704	28.6	16	25.4	M20	641.4	41.07
500	T/E	704.9	38.1	16	25.4	M20	641.1	55.8
600	T/D	825.5	31.8	16	28.6	M24	755.7	60.27
600	T/E	825.5	47.6	16	31.8	M30	755.7	89.29
700	T/D	908.1	34.9	20	28.6	M24	844.6	64.17
700	T/E	908.1	50.8	20	31.8	M30	844.6	92.19
900	T/D	1174.7	47.6	24	35	M30	1092.2	156.25
900	T/E	1174.7	63.5	24	35	M30	1092.2	203.13
1000	T/D	1257.3	50.8	24	35	M30	1174.7	167
1000	T/E	1257.3	60.7	24	38.1	M36	1174.7	214
1200	T/D	1492.2	60.3	32	35	M30	1409.7	258.94
1200	T/E	1492.2	79.4	32	38.1	M36	1409.7	334.78

Identifying columns are repeated. Read all column groups together for the complete row specification.

BS10 flange dimensions / column group 2 of 2

Nominal bore (mm)	Class / table designation	Standard reference
15	T/D	BS10
15	T/E	BS10
20	T/D	BS10
20	T/E	BS10
25	T/D	BS10
25	T/E	BS10
32	T/D	BS10
32	T/E	BS10
40	T/D	BS10
40	T/E	BS10
50	T/D	BS10
50	T/E	BS10
65	T/D	BS10
65	T/E	BS10
80	T/D	BS10
80	T/E	BS10
100	T/D	BS10
100	T/E	BS10
125	T/D	BS10
125	T/E	BS10
150	T/D	BS10

BS10 flange dimensions / column group 2 of 2

Nominal bore (mm)	Class / table designation	Standard reference
150	T/E	BS10
200	T/D	BS10
200	T/E	BS10
250	T/D	BS10
250	T/E	BS10
300	T/D	BS10
300	T/E	BS10
350	T/D	BS10
350	T/E	BS10
400	T/D	BS10
400	T/E	BS10
450	T/D	BS10
450	T/E	BS10
500	T/D	BS10
500	T/E	BS10
600	T/D	BS10
600	T/E	BS10
700	T/D	BS10
700	T/E	BS10
900	T/D	BS10
900	T/E	BS10

BS10 flange dimensions / column group 2 of 2

Nominal bore (mm)	Class / table designation	Standard reference
1000	T/D	BS10
1000	T/E	BS10
1200	T/D	BS10
1200	T/E	BS10

Identifying columns are repeated. Read all column groups together for the complete row specification.

Flange drilling and dimensional references for the selected standard, nominal bore and class. Specify the flange construction, face, material grade and design temperature. A PN, class or table designation alone does not establish an allowable working pressure for every material and temperature. Blank dimensions are not confirmed available configurations.

Application & quotation checklist

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

038 / ASME B16.5 flanges

Specify the flange standard, size, drilling, facing and material for the mating installation.

Application: Application-led selection for the specified operating conditions.

ASME B16.5 flange dimensions / column group 1 of 2

Nominal bore (mm)	Class / table designation	Flange outside diameter D (mm)	Flange thickness b (mm)	Raised-face diameter d2 (mm)	Raised-face height f (mm)	Bolt holes	Hole diameter d1 (mm)
15	CL 150	88.9	11.1	34.9	1.6	4	15.9
15	CL 300	95.2	14.3	34.9	1.6	4	15.9
20	CL 150	98.4	12.7	42.9	1.6	4	16
20	CL 300	117.5	15.9	42.9	1.6	4	19
25	CL 150	107.9	14.3	50.8	1.6	4	16
25	CL 300	123.8	17.5	50.8	1.6	4	19
32	CL 150	117.5	15.9	73.9	1.6	4	15.9

ASME B16.5 flange dimensions / column group 1 of 2

Nominal bore (mm)	Class / table designation	Flange outside diameter D (mm)	Flange thickness b (mm)	Raised-face diameter d2 (mm)	Raised-face height f (mm)	Bolt holes	Hole diameter d1 (mm)
32	CL 300	133.3	19	63.5	1.6	4	19
40	CL 150	127	17.5	73	1.6	4	16
40	CL 300	155.6	20.6	73	1.6	4	18
50	150lb	152.4	19	92	1.6	4	19
50	300lb	165.1	22.2	92.1	1.6	8	19
65	150lb	177.8	22.2	104.8	1.6	4	19
65	300lb	190.5	25.4	104.8	1.6	8	22
80	150lb	190.5	23.8	127	1.6	4	19
80	300lb	209.5	28.6	127	1.6	8	22
100	150lb	228.6	23.8	157.2	1.6	8	19
100	300lb	254	31.7	157.2	1.6	8	22
125	150lb	254	23.8	185.7	1.6	8	22
125	300lb	279.4	34.9	185.7	1.6	8	22
150	150lb	279.4	25.4	215.9	1.6	8	22.2
150	300lb	317.5	36.5	215.9	1.6	12	22.2
200	150lb	342.9	28.6	269.9	1.6	8	22.2
200	300lb	381	41.3	269.9	1.6	12	22.2
250	150lb	406.4	30.2	323.8	1.6	12	25.4
250	300lb	444.5	47.6	323.8	1.6	16	31.7
300	150lb	482.6	31.7	381	1.6	12	25.4
300	300lb	520.7	50.8	381	1.6	16	31.7

ASME B16.5 flange dimensions / column group 1 of 2

Nominal bore (mm)	Class / table designation	Flange outside diameter D (mm)	Flange thickness b (mm)	Raised-face diameter d2 (mm)	Raised-face height f (mm)	Bolt holes	Hole diameter d1 (mm)
350	150lb	533.4	34.9	412.8	1.6	12	28.6
350	300lb	584.2	54	412.8	1.6	20	31.7
400	150lb	596.9	36.5	470	1.6	16	28.6
400	300lb	647.7	57.1	470	1.6	20	34.9
450	150lb	635	39.7	533.4	1.6	16	31.7
450	300lb	711.2	60.3	533.4	1.6	24	34.9
500	150lb	698.5	42.9	584.2	1.6	20	31.7
500	300lb	774.7	63.5	584.2	1.6	24	34.9
600	150lb	812.8	47.6	692.1	1.6	20	34.9
600	300lb	914.4	69.8	692.1	1.6	24	38.1

Identifying columns are repeated. Read all column groups together for the complete row specification.

ASME B16.5 flange dimensions / column group 2 of 2

Nominal bore (mm)	Class / table designation	Bolt size	Bolt circle PCD (mm)	Reference mass (kg)	Standard reference
15	CL 150	M12	60.3	0.45	ASME B16.5
15	CL 300	M12	66.7	0.91	ASME B16.5
20	CL 150	M12	69.8	0.68	ASME B16.5
20	CL 300	M16	82.5	1.25	ASME B16.5
25	CL 150	M12	79.4	0.95	ASME B16.5
25	CL 300	M16	66.7	1.36	ASME B16.5
32	CL 150	M12	88.9	1.11	ASME B16.5
32	CL 300	M16	98.4	2.04	ASME B16.5

ASME B16.5 flange dimensions / column group 2 of 2

Nominal bore (mm)	Class / table designation	Bolt size	Bolt circle PCD (mm)	Reference mass (kg)	Standard reference
40	CL 150	M12	98.4	1.4	ASME B16.5
40	CL 300	M16	114.3	2.81	ASME B16.5
50	150lb	M16	120.6	2.3	ASME B16.5
50	300lb	M16	127	3.13	ASME B16.5
65	150lb	M16	139.7	3.82	ASME B16.5
65	300lb	M20	149.2	4.54	ASME B16.5
80	150lb	M16	152.4	4.08	ASME B16.5
80	300lb	M20	168.3	6.12	ASME B16.5
100	150lb	M16	190.5	5.94	ASME B16.5
100	300lb	M20	200	9.53	ASME B16.5
125	150lb	M20	215.9	6.25	ASME B16.5
125	300lb	M20	234.9	12.7	ASME B16.5
150	150lb	M20	241.3	8.16	ASME B16.5
150	300lb	M20	269.9	16.33	ASME B16.5
200	150lb	M20	298.4	12.7	ASME B16.5
200	300lb	M20	330.2	25.4	ASME B16.5
250	150lb	M24	361.9	17.24	ASME B16.5
250	300lb	M30	387.3	35.38	ASME B16.5
300	150lb	M20	431.8	27.22	ASME B16.5
300	300lb	M30	450.8	50.8	ASME B16.5
350	150lb	M24	476.2	35.71	ASME B16.5

ASME B16.5 flange dimensions / column group 2 of 2

Nominal bore (mm)	Class / table designation	Bolt size	Bolt circle PCD (mm)	Reference mass (kg)	Standard reference
350	300lb	M30	514	75	ASME B16.5
400	150lb	M24	539.7	45.09	ASME B16.5
400	300lb	M30	571.5	101.6	ASME B16.5
450	150lb	M30	577.8	52.62	ASME B16.5
450	300lb	M30	628.65	126.1	ASME B16.5
500	150lb	M30	635	65.32	ASME B16.5
500	300lb	M30	685.8	150	ASME B16.5
600	150lb	M30	749.3	91.63	ASME B16.5
600	300lb	M36	812.8	222.26	ASME B16.5

Identifying columns are repeated. Read all column groups together for the complete row specification.

Flange drilling and dimensional references for the selected standard, nominal bore and class. Specify the flange construction, face, material grade and design temperature. A PN, class or table designation alone does not establish an allowable working pressure for every material and temperature. Blank dimensions are not confirmed available configurations.

Application & quotation checklist

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

039 / HDPE Backing Flanges

Specify the flange standard, size, drilling, facing and material for the mating installation.

Application: Application-led selection for the specified operating conditions.

HDPE backing flange pattern dimensions

Bolt circle pcd mm	Bolt count	Bolt size	Construction	Flange od mm	bore d1 mm	pattern	pipe size mm	Thickness b mm
66.7	4.0	M12	HDPE backing flange	95.0	30.0	BS10 Table D	20	5.0
73.0	4.0	M12	HDPE backing flange	101.0	38.0	BS10 Table D	25	5.0

HDPE backing flange pattern dimensions

Bolt circle pcd mm	Bolt count	Bolt size	Construction	Flange od mm	bore d1 mm	pattern	pipe size mm	Thickness b mm
82.6	4.0	M12	HDPE backing flange	114.0	45.0	BS10 Table D	32	5.0
87.3	4.0	M12	HDPE backing flange	120.0	52.0	BS10 Table D	40	6.0
98.4	4.0	M12	HDPE backing flange	133.0	63.0	BS10 Table D	50	6.0
114.3	4.0	M16	HDPE backing flange	152.0	74.0	BS10 Table D	63	8.0
127.0	4.0	M16	HDPE backing flange	165.0	86.0	BS10 Table D	75	8.0
146.0	4.0	M16	HDPE backing flange	184.0	103.0	BS10 Table D	90	10.0
177.8	4.0	M16	HDPE backing flange	215.0	135.0	BS10 Table D	110	10.0
177.8	4.0	M16	HDPE backing flange	215.0	135.0	BS10 Table D	125	10.0
209.6	8.0	M16	HDPE backing flange	254.0	158.0	BS10 Table D	140	13.0
235.0	8.0	M16	HDPE backing flange	279.0	188.0	BS10 Table D	160	13.0
235.0	8.0	M16	HDPE backing flange	279.0	188.0	BS10 Table D	180	13.0
292.0	8.0	M16	HDPE backing flange	336.0	236.0	BS10 Table D	200	13.0
292.0	8.0	M16	HDPE backing flange	336.0	236.0	BS10 Table D	225	13.0
355.6	8.0	M20	HDPE backing flange	406.0	279.0	BS10 Table D	250	16.0
355.6	8.0	M20	HDPE backing flange	406.0	292.0	BS10 Table D	280	16.0
406.4	12.0	M20	HDPE backing flange	457.0	330.0	BS10 Table D	315	19.0
469.9	12.0	M24	HDPE backing flange	527.0	367.0	BS10 Table D	355	22.0
520.7	12.0	M24	HDPE backing flange	577.0	430.0	BS10 Table D	400	22.0
584.2	12.0	M24	HDPE backing flange	641.0	476.0	BS10 Table D	450	25.0
641.4	16.0	M24	HDPE backing flange	704.0	533.0	BS10 Table D	500	28.0
755.7	16.0	M27	HDPE backing flange	825.0	592.0	BS10 Table D	560	31.0

HDPE backing flange pattern dimensions

Bolt circle pcd mm	Bolt count	Bolt size	Construction	Flange od mm	bore d1 mm	pattern	pipe size mm	Thickness b mm
755.7	16.0	M27	HDPE backing flange	825.0	662.0	BS10 Table D	630	31.0
66.7	4.0	M12	HDPE backing flange	95.0	Confirm	BS10 Table E	20	7.0
73.0	4.0	M12	HDPE backing flange	101.0	Confirm	BS10 Table E	25	7.0
82.6	4.0	M12	HDPE backing flange	114.0	Confirm	BS10 Table E	32	7.0
87.3	4.0	M12	HDPE backing flange	120.0	Confirm	BS10 Table E	40	8.0
98.4	4.0	M12	HDPE backing flange	133.0	Confirm	BS10 Table E	50	9.0
114.3	4.0	M16	HDPE backing flange	152.0	Confirm	BS10 Table E	63	10.0
127.0	4.0	M16	HDPE backing flange	165.0	Confirm	BS10 Table E	75	10.0
146.0	4.0	M16	HDPE backing flange	184.0	Confirm	BS10 Table E	90	12.0
177.8	8.0	M16	HDPE backing flange	215.0	Confirm	BS10 Table E	110	14.0
177.8	8.0	M16	HDPE backing flange	215.0	Confirm	BS10 Table E	125	14.0
209.6	8.0	M16	HDPE backing flange	254.0	Confirm	BS10 Table E	140	15.0
235.0	8.0	M20	HDPE backing flange	279.0	Confirm	BS10 Table E	160	18.0
235.0	8.0	M20	HDPE backing flange	279.0	Confirm	BS10 Table E	180	18.0
292.0	8.0	M20	HDPE backing flange	336.0	Confirm	BS10 Table E	200	19.0
292.0	8.0	M20	HDPE backing flange	336.0	Confirm	BS10 Table E	225	19.0
355.6	12.0	M20	HDPE backing flange	406.0	Confirm	BS10 Table E	250	22.0
355.6	12.0	M20	HDPE backing flange	406.0	Confirm	BS10 Table E	280	22.0
406.4	12.0	M24	HDPE backing flange	457.0	Confirm	BS10 Table E	315	25.0
469.9	12.0	M24	HDPE backing flange	527.0	Confirm	BS10 Table E	355	29.0
520.7	12.0	M24	HDPE backing flange	577.0	Confirm	BS10 Table E	400	32.0

HDPE backing flange pattern dimensions

Bolt circle pcd mm	Bolt count	Bolt size	Construction	Flange od mm	bore d1 mm	pattern	pipe size mm	Thickness b mm
584.2	16.0	M24	HDPE backing flange	641.0	Confirm	BS10 Table E	450	35.0
641.4	16.0	M24	HDPE backing flange	704.0	Confirm	BS10 Table E	500	38.0
755.7	16.0	M30	HDPE backing flange	825.0	Confirm	BS10 Table E	560	47.0
755.7	16.0	M30	HDPE backing flange	825.0	Confirm	BS10 Table E	630	47.0
60.0	4.0	M12	HDPE backing flange	88.0	Confirm	ASA150	20	10.0
69.0	4.0	M12	HDPE backing flange	98.0	Confirm	ASA150	25	10.0
79.0	4.0	M12	HDPE backing flange	107.0	Confirm	ASA150	32	10.0
88.0	4.0	M12	HDPE backing flange	117.0	Confirm	ASA150	40	12.0
98.0	4.0	M12	HDPE backing flange	127.0	Confirm	ASA150	50	12.0
120.0	4.0	M16	HDPE backing flange	152.0	Confirm	ASA150	63	12.0
139.0	4.0	M16	HDPE backing flange	177.0	Confirm	ASA150	75	12.0
152.0	4.0	M16	HDPE backing flange	190.0	Confirm	ASA150	90	12.0
190.0	8.0	M16	HDPE backing flange	228.0	Confirm	ASA150	110	15.0
190.0	8.0	M16	HDPE backing flange	228.0	Confirm	ASA150	125	15.0
215.0	8.0	M20	HDPE backing flange	254.0	Confirm	ASA150	140	15.0
241.0	8.0	M20	HDPE backing flange	279.0	Confirm	ASA150	160	20.0
241.0	8.0	M20	HDPE backing flange	279.0	Confirm	ASA150	180	20.0
298.0	8.0	M20	HDPE backing flange	342.0	Confirm	ASA150	200	20.0
298.0	8.0	M20	HDPE backing flange	342.0	Confirm	ASA150	225	20.0
361.0	12.0	M24	HDPE backing flange	406.0	Confirm	ASA150	250	25.0
361.0	12.0	M24	HDPE backing flange	406.0	Confirm	ASA150	280	25.0

HDPE backing flange pattern dimensions

Bolt circle pcd mm	Bolt count	Bolt size	Construction	Flange od mm	bore d1 mm	pattern	pipe size mm	Thickness b mm
431.0	12.0	M24	HDPE backing flange	482.0	Confirm	ASA150	315	30.0
476.0	12.0	M26	HDPE backing flange	533.0	Confirm	ASA150	355	30.0
539.0	16.0	M26	HDPE backing flange	596.0	Confirm	ASA150	400	30.0
577.0	16.0	M30	HDPE backing flange	635.0	Confirm	ASA150	450	30.0
635.0	20.0	M30	HDPE backing flange	698.0	Confirm	ASA150	500	30.0
749.0	20.0	M32	HDPE backing flange	812.0	Confirm	ASA150	560	35.0
65.0	4.0	M12	HDPE backing flange	95.0	30.0	SANS1123:2007 1600/3	20	10.0
75.0	4.0	M12	HDPE backing flange	105.0	38.0	SANS1123:2007 1600/3	25	10.0
85.0	4.0	M12	HDPE backing flange	115.0	45.0	SANS1123:2007 1600/3	32	10.0
100.0	4.0	M16	HDPE backing flange	140.0	52.0	SANS1123:2007 1600/3	40	10.0
110.0	4.0	M16	HDPE backing flange	150.0	63.0	SANS1123:2007 1600/3	50	10.0
125.0	4.0	M16	HDPE backing flange	165.0	74.0	SANS1123:2007 1600/3	63	12.0
145.0	4.0	M16	HDPE backing flange	185.0	86.0	SANS1123:2007 1600/3	75	12.0
160.0	8.0	M16	HDPE backing flange	200.0	103.0	SANS1123:2007 1600/3	90	14.0
180.0	8.0	M16	HDPE backing flange	220.0	136.0	SANS1123:2007 1600/3	110	14.0
180.0	8.0	M16	HDPE backing flange	220.0	136.0	SANS1123:2007 1600/3	125	14.0
210.0	8.0	M16	HDPE backing flange	250.0	158.0	SANS1123:2007 1600/3	140	16.0
240.0	8.0	M20	HDPE backing flange	285.0	190.0	SANS1123:2007 1600/3	160	18.0
240.0	8.0	M20	HDPE backing flange	285.0	190.0	SANS1123:2007 1600/3	180	18.0
295.0	12.0	M20	HDPE backing flange	340.0	236.0	SANS1123:2007 1600/3	200	22.0
295.0	12.0	M20	HDPE backing flange	340.0	236.0	SANS1123:2007 1600/3	225	22.0

HDPE backing flange pattern dimensions

Bolt circle pcd mm	Bolt count	Bolt size	Construction	Flange od mm	bore d1 mm	pattern	pipe size mm	Thickness b mm
355.0	12.0	M24	HDPE backing flange	405.0	279.0	SANS1123:2007 1600/3	250	25.0
355.0	12.0	M24	HDPE backing flange	405.0	292.0	SANS1123:2007 1600/3	280	25.0
410.0	12.0	M24	HDPE backing flange	460.0	330.0	SANS1123:2007 1600/3	315	28.0
470.0	16.0	M24	HDPE backing flange	520.0	376.0	SANS1123:2007 1600/3	355	30.0
525.0	16.0	M24	HDPE backing flange	580.0	430.0	SANS1123:2007 1600/3	400	35.0
585.0	20.0	M24	HDPE backing flange	640.0	476.0	SANS1123:2007 1600/3	450	40.0
650.0	20.0	M30	HDPE backing flange	715.0	533.0	SANS1123:2007 1600/3	500	40.0
710.0	20.0	M30	HDPE backing flange	775.0	592.0	SANS1123:2007 1600/3	560	40.0
770.0	20.0	M30	HDPE backing flange	840.0	662.0	SANS1123:2007 1600/3	630	50.0
65.0	4.0	M12	HDPE backing flange	95.0	Confirm	SANS1123:2007 1000/3	20	10.0
75.0	4.0	M12	HDPE backing flange	105.0	Confirm	SANS1123:2007 1000/3	25	10.0
85.0	4.0	M12	HDPE backing flange	115.0	Confirm	SANS1123:2007 1000/3	32	10.0
100.0	4.0	M16	HDPE backing flange	140.0	Confirm	SANS1123:2007 1000/3	40	10.0
110.0	4.0	M16	HDPE backing flange	150.0	Confirm	SANS1123:2007 1000/3	50	10.0
125.0	4.0	M16	HDPE backing flange	165.0	Confirm	SANS1123:2007 1000/3	63	12.0
145.0	4.0	M16	HDPE backing flange	185.0	Confirm	SANS1123:2007 1000/3	75	12.0
160.0	8.0	M16	HDPE backing flange	200.0	Confirm	SANS1123:2007 1000/3	90	12.0
180.0	8.0	M16	HDPE backing flange	220.0	Confirm	SANS1123:2007 1000/3	110	12.0
180.0	8.0	M16	HDPE backing flange	220.0	Confirm	SANS1123:2007 1000/3	125	12.0
210.0	8.0	M16	HDPE backing flange	250.0	Confirm	SANS1123:2007 1000/3	140	14.0
240.0	8.0	M20	HDPE backing flange	285.0	Confirm	SANS1123:2007 1000/3	160	16.0

HDPE backing flange pattern dimensions

Bolt circle pcd mm	Bolt count	Bolt size	Construction	Flange od mm	bore d1 mm	pattern	pipe size mm	Thickness b mm
240.0	8.0	M20	HDPE backing flange	285.0	Confirm	SANS1123:2007 1000/3	180	16.0
295.0	8.0	M20	HDPE backing flange	340.0	Confirm	SANS1123:2007 1000/3	200	18.0
295.0	8.0	M20	HDPE backing flange	340.0	Confirm	SANS1123:2007 1000/3	225	18.0
350.0	12.0	M20	HDPE backing flange	395.0	Confirm	SANS1123:2007 1000/3	250	20.0
350.0	12.0	M20	HDPE backing flange	395.0	Confirm	SANS1123:2007 1000/3	280	20.0
400.0	12.0	M20	HDPE backing flange	445.0	Confirm	SANS1123:2007 1000/3	315	22.0
460.0	16.0	M20	HDPE backing flange	506.0	Confirm	SANS1123:2007 1000/3	355	25.0
515.0	16.0	M24	HDPE backing flange	565.0	Confirm	SANS1123:2007 1000/3	400	25.0
565.0	20.0	M24	HDPE backing flange	615.0	Confirm	SANS1123:2007 1000/3	450	30.0
620.0	20.0	M24	HDPE backing flange	670.0	Confirm	SANS1123:2007 1000/3	500	32.0
675.0	20.0	M24	HDPE backing flange	730.0	Confirm	SANS1123:2007 1000/3	560	35.0
725.0	20.0	M26	HDPE backing flange	780.0	Confirm	SANS1123:2007 1000/3	630	40.0
55.0	4.0	M10	HDPE backing flange	80.0	Confirm	SANS1123:2007 600/3	20	10.0
65.0	4.0	M10	HDPE backing flange	90.0	Confirm	SANS1123:2007 600/3	25	10.0
75.0	4.0	M10	HDPE backing flange	100.0	Confirm	SANS1123:2007 600/3	32	10.0
90.0	4.0	M12	HDPE backing flange	120.0	Confirm	SANS1123:2007 600/3	40	10.0
100.0	4.0	M12	HDPE backing flange	130.0	Confirm	SANS1123:2007 600/3	50	10.0
110.0	4.0	M12	HDPE backing flange	140.0	Confirm	SANS1123:2007 600/3	63	10.0
130.0	4.0	M12	HDPE backing flange	160.0	Confirm	SANS1123:2007 600/3	75	10.0
150.0	4.0	M16	HDPE backing flange	190.0	Confirm	SANS1123:2007 600/3	90	10.0
170.0	4.0	M16	HDPE backing flange	210.0	Confirm	SANS1123:2007 600/3	110	10.0

HDPE backing flange pattern dimensions

Bolt circle pcd mm	Bolt count	Bolt size	Construction	Flange od mm	bore d1 mm	pattern	pipe size mm	Thickness b mm
170.0	4.0	M16	HDPE backing flange	210.0	Confirm	SANS1123:2007 600/3	125	10.0
200.0	8.0	M16	HDPE backing flange	240.0	Confirm	SANS1123:2007 600/3	140	12.0
225.0	8.0	M16	HDPE backing flange	265.0	Confirm	SANS1123:2007 600/3	160	12.0
225.0	8.0	M16	HDPE backing flange	265.0	Confirm	SANS1123:2007 600/3	180	12.0
280.0	8.0	M16	HDPE backing flange	320.0	Confirm	SANS1123:2007 600/3	200	14.0
280.0	8.0	M16	HDPE backing flange	320.0	Confirm	SANS1123:2007 600/3	225	14.0
335.0	12.0	M16	HDPE backing flange	375.0	Confirm	SANS1123:2007 600/3	250	16.0
335.0	12.0	M16	HDPE backing flange	375.0	Confirm	SANS1123:2007 600/3	280	16.0
395.0	12.0	M20	HDPE backing flange	440.0	Confirm	SANS1123:2007 600/3	315	20.0
445.0	12.0	M20	HDPE backing flange	490.0	Confirm	SANS1123:2007 600/3	355	22.0
495.0	16.0	M20	HDPE backing flange	540.0	Confirm	SANS1123:2007 600/3	400	22.0
550.0	16.0	M20	HDPE backing flange	595.0	Confirm	SANS1123:2007 600/3	450	25.0
600.0	20.0	M20	HDPE backing flange	645.0	Confirm	SANS1123:2007 600/3	500	25.0
655.0	20.0	M24	HDPE backing flange	705.0	Confirm	SANS1123:2007 600/3	560	28.0
705.0	20.0	M24	HDPE backing flange	755.0	Confirm	SANS1123:2007 600/3	630	30.0

HDPE backing-flange pattern dimensions by the listed pipe size and standard/table designation. Pipe size is the listed HDPE pipe size, not nominal bore. Confirm material grade, bore, stub-end fit and the applicable current dimensional and pressure-temperature requirements. These are dimensional references; no order code is established.

Application & quotation checklist

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

040 / Legacy-pattern drilled flanges

Specify the flange standard, size, drilling, facing and material for the mating installation.

Application: Application-led selection for the specified operating conditions.

[Application & quotation checklist](#)

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

This family is specified to the required application and configuration. The quotation confirms the selected material, dimensions and operating rating; no universal rating is implied for every option.

041 / Hydraulic Tube Clamps

Pipe and tube support for routed hydraulic systems.

[Application & quotation checklist](#)

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

This family is specified to the required application and configuration. The quotation confirms the selected material, dimensions and operating rating; no universal rating is implied for every option.

042 / Stainless Steel Tube & Pipe

Corrosion-led pipework and tube selection.

[Application & quotation checklist](#)

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

This family is specified to the required application and configuration. The quotation confirms the selected material, dimensions and operating rating; no universal rating is implied for every option.

043 / Stainless Steel BSP Pipe Fittings

Threaded stainless steel elbows, tees, sockets and adaptors.

[Application & quotation checklist](#)

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

This family is specified to the required application and configuration. The quotation confirms the selected material, dimensions and operating rating; no universal rating is implied for every option.

044 / Stainless Steel Butt Weld Fittings

Welded pipework elbows, reducers and tees.

[Application & quotation checklist](#)

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

This family is specified to the required application and configuration. The quotation confirms the selected material, dimensions and operating rating; no universal rating is implied for every option.

045 / Socket Weld & Forged Fittings

Forged connection components for engineered pipework.

[Application & quotation checklist](#)

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

This family is specified to the required application and configuration. The quotation confirms the selected material, dimensions and operating rating; no universal rating is implied for every option.

046 / Instrumentation Fittings

Small-bore instrumentation tube connection systems.

[Application & quotation checklist](#)

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

This family is specified to the required application and configuration. The quotation confirms the selected material, dimensions and operating rating; no universal rating is implied for every option.

047 / Dairy & Hygienic Pipe Fittings

Hygienic pipe fittings and compatible connection components.

[Application & quotation checklist](#)

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

This family is specified to the required application and configuration. The quotation confirms the selected material, dimensions and operating rating; no universal rating is implied for every option.
