

DIMENSIONAL IDENTIFICATION

Tube outside diameter & union thread

Use this chart for the tube-end union connection. It is not a chart of equipment-port threads. Identify OD and series together, then confirm the seat and sealing arrangement.

Series	Tube OD (mm)	Union thread
LL	4	M8 x 1
LL	6	M10 x 1
LL	8	M12 x 1
LL	10	M14 x 1
LL	12	M16 x 1
L	6	M12 x 1.5
L	8	M14 x 1.5
L	10	M16 x 1.5
L	12	M18 x 1.5
L	15	M22 x 1.5
L	18	M26 x 1.5
L	22	M30 x 2
L	28	M36 x 2
L	35	M45 x 2
L	42	M52 x 2
S	6	M14 x 1.5
S	8	M16 x 1.5
S	10	M18 x 1.5
S	12	M20 x 1.5
S	14	M22 x 1.5
S	16	M24 x 1.5
S	20	M30 x 2
S	25	M36 x 2
S	30	M42 x 2
S	38	M52 x 2

LL 10 and 12 mm are within the reference scope; confirm that the required configuration is supplied. Sizes that share a thread can still have different tube diameters or series.

Examples: 8L and 6S share M14 x 1.5. 22L and 20S share M30 x 2. Thread fit alone is not a selection check.

CONNECTION SELECTION

Port threads, sealing forms & transitions

Connection	What to confirm
BSP parallel (BSPP / G)	Thread size; sealing face; washer, ED or O-ring arrangement.
BSP tapered (BSPT / R)	Mating taper thread; sealing method for the service.
Metric parallel	Diameter and pitch; port form and specified seal.
Metric tapered	Taper specification and matching port; do not assume parallel.
NPT	Correct NPT size; do not interchange with BSP taper.
UN/UNF O-ring boss	Thread size and boss/groove geometry; correct O-ring.
JIC 37° transition	37° flare interface and unified thread; distinct from DIN 24°.

A male connector has two different ends

Specify the tube-end OD and LL/L/S series separately from the equipment-port thread. For example, the tube union thread in the size chart does not establish which BSP, metric, NPT or unified port is needed.

O-ring and ED profile seals

An O-ring seals in its designed groove or boss arrangement. An ED profile ring seals at its specified port face. These are not interchangeable generic rings. Match the profile and material to the connection and medium. Thread sealant cannot replace a missing or damaged seal.

Supplementary transition options

For systems that include 37° flare connections, request a DIN 24°-to-JIC 37° transition with both ends fully specified. For a unified straight-thread equipment port, request the correct O-ring boss arrangement. A unified thread alone does not tell you whether the seal is a 37° cone or an O-ring boss.

Transition options are subject to enquiry and configuration confirmation. Identify whether the quoted item is a complete assembly with nuts and cutting rings or a body only. Do not combine parts solely because the threads engage.