



DK-Lok VR Series Tube Fittings

No.01-10
July 2021





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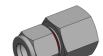


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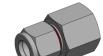
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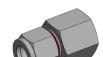
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Run Tee Adapter

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Branch Tee Adapter

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Tube to AN Tube

AN Union

DUA-VR 42



Tube to Non-Positionable O-Seal

O-Seal Straight Thread Connector

DMC-UO-VR 43



O-Seal Pipe Thread Connector

DMC-NO-VR 43



Non-Positionable SEA Male Connector

DMCS-U-VR 44



Tube to Positionable Straight Thread

Positionable SAE Male Elbow

DLS-UP-VR 45



Positionable SAE 45° Male Elbow

DLS-UP-VR 45



Positionable SAE Male Run Tee

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Tube Socket Weld Connector

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Tube Socket Weld Elbow

DLSW-VR 49



Cap, Plug

Cap

DC-VR 50



Plug

DP-VR 50



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Nut

DN-VR 51



Front Ferrule

DFF 51



Back Ferrule

DFB 51



Pre Swaging Tool

DPS 51





Technical Information

The Premium Quality

DK-Lok VR Series Tube Fittings

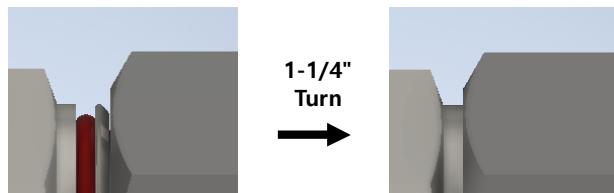
DK-Lok VR Series Tube Fitting is designed using industrial codes and Specification with additional Cutting-Edge Engineering on swaging action and sealing integrity. DK-Lok VR Series provides excellent leak-free sealing on high pressure gas, vacuum, impulse, thermal shock, heavy vibration, and many other stringent applications.

DK-Lok brings you truly excellent quality, outstanding customer service, and availability.

Enjoy DK-Lok VR Series Tube fitting working on your application!

Product Identification / Visual inspection

The red color on body identifies DK-Lok VR Series Tube Fittings. It is disappeared by the nut when the fittings make-up is completed with 1-1/4 turns beyond finger tight position. The identification helps fitters eliminate the make-up inspection with a gap gauge it further facilitates operator's visual inspection on the running system.



Construction of DK-Lok VR Series Tube Fittings

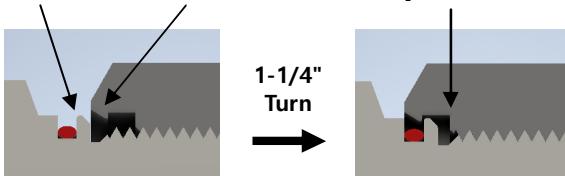
DK-Lok VR Series Tube Fitting consists of body, front ferrule, back ferrule and nut. The features include.

- Excellent product range up to 1 in. and 25 mm OD.
- Additional engineering on sealing integrity and swaging action.
- Re-usable and predictable quality.
- Gaugable.
- Excellent leak-free sealing integrity on heavy vibration, vacuum and impulse.
- Heat-Code Traceability.
- No torque transferring to connective tubing during installation.

DK-Lok VR Series Tube Fittings "HOOK" Design

The Patented Groove constructed both on Stainless DK-Lok Tube Fitting Nut and Body locks the Nut up on the Body mechanically at 1-1/4 turns beyond the finger tight.

Groove on Body Groove on Nut Body/Nut Mechanical stop



The Hooked (made-up) DK-Lok tube fitting provides LIFETIME Leak-Tight sealing unless the fitting manually un-tightened by spanner.

The patented GROOVE constructed both on Nut and Body allows no over-tightening beyond 1-1/4 turns is install & re-tightening installation. Over-tightening is not feasible in the DK-Lok VR Series Tube Fitting mechanically that is designed to provide precise 1-1/4 make-up keeping the four components of front, back ferrule, nut and body fatigue-free for extended lifetime service.

Product Cleaning

Every DK-Lok VR Series tube fitting is cleaned to remove surface contamination, iron particles from cutting tools, oil form cutting fluid, and loose particles. For further information refer to DK cleaning standard DC-01.

Special cleaning for oxygen service application is available on request.

Refer to specialcleaning standard DC-11.

Table 1. Material Standard

DK-Lok VR Series tube fitting are supplied in various materials to satisfy the needs of various applications including on shore oil& gas, refinery, offshore oil& gas, chemical, petrochemical, analytical instrumentation, steel mill, power plant, shipbuilding, pharmaceutical, and alternative fuel.

Material	Bar stock	Forging
Stainless Steel 316	ASTM A 276	ASTM A 182
	ASTM A 479	ASME SA 182
	ASME SA 479	JIS G3214
	JIS G4303	

O-ring

DK-Lok fitting pipe end with O-ring is supplied, 90 durometer FKM O-ring on Stainless steel fitting.

Other O-ring is available on request.



Technical Information

DK-Lok Port Dimension

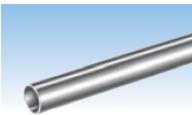
Dimensions on DK-Lok VR Series Port in the catalog are approximate figures and shown in finger-tight position.

Alternative Fuels

Stainless steel 316 DK-Lok VR Series Tube fitting are tested to the requirements of ECE E110, EIHP Draft, ECE R67 and certified by TUV.

Tubing

For safe, reliable and leak-free DK-Lok VR Series fitting system, tubing should be considered as one of fitting components.



- Tubing is assembled by simple wrench make-up on DK-Lok fitting. This results in less assembly and maintenance costs.
- Tubing assembly on DK-Lok fitting is re-usable.
- Tubing is bendable. It allows lower pressure drop with fewer connections. This in turn reduces system costs because of less fabricating manpower.
- Pipe threading or welding is difficult to disassemble and re-assemble
- Piping requires skilled worker for welding & threading

Tubing Selection

Hardness

- Tubing must be softer than fitting material. The metal tubing must be fully annealed and suitable for bending and flaring.
- Tubing hardness must be selected according to the information in the table 2 to 3.

Surface

- Tubing must have a surface free from scratches, draw mark, dirt, dust and flat spots.

Ovality

- Tubing in oval or out-of-roundness way not fit into the fitting. Do not force the tubing into the fitting, it may damage the fitting sealing system on nut, ferrules, and body.

Wallthickness

- The table 2 to 3 list tubing working pressure ratings in a wide range of wall thickness. A too thin wall may collapse and a too thick wall may not properly be deformed by the ferrule action.
- Do not use tubing wall thickness not listed in the table 2 to 3.

Weld tubing

- Welded tubing should have a not measurable bead on its outside diameter.

Tubing Handling

Careful handling and storage practices will protect tubing from unnecessary scratches, nicks, or degrading the good tubing surface

- Tubing ends should be capped so any foreign materials will not fall inside during transportation and storage.
- Do not drag across tubing rack, cement, gravel or any rough surface.
- Do use correct tube cutter for tube material. The wrong cutter may result in excessive deformation of the tube end.
- Do not cut deep with each turn of cutting.
- Tube cutters and hacksaws should be sharp enough.
- Hacksaw blades should have at least 32 teeth per inch.
- Do deburr tube ends before inserting in fittings.

DK-Lok Tube Fitting Pressure Rating

- The pressure rating of DK-Lok VR Series is rated to the working pressure of connective tubing.
- The allowable working pressure of tubing in various materials is listed in the table 2 to 3.

Material

Using like tubing and fitting material is essential for leak-free sealing system.

Unlike material may have different mechanical properties that may adversely affect the fitting seal on tubing.

Application



The outstanding feature of HOOK design never allows DK-Lok VR Series Tube Fitting on service to loose nut resulting in system failure & leakage. The application includes where thermal shock, extreme impulse such ad power generation, equipment, where leak-tight service must be in place such as hazardous gas and offshore industries.

Gas Application

DK-Lok tube fitting is designed for wide range of leak-free application including gas leak proof and vacuum tight service. Gases (helium, hydrogen, nitrogen, air, etc.) can escape even the most minute leak-path due to their very small molecules.

Tube therefore must be handled not to have scratches, draw mark, nicks, flat spots, dirt, and dust.

Use NOT thin wall tubing for gas applications.

Heavier wall tubing resists the ferrule action whereas thin wall tubing may collapse with little resistance to ferrule action.

For Gas service, use the tubing wall listed on un-shadowed section in table 2 to 3.

Vacuum Application

DK-Lok VR Series Tube fittings has been proved to be excellent vacuum tight seal in many applications including analytical industry. DK-Lok Tube Fittings comply with the leakage requirements of TA-LUFT 2002.

Cryogenic Application

DK-Lok VR Series Fittings in SS316 Stainless Steel provide highly reliable performance on cryogenic application. Cryogenic temperature is considered to be temperatures below -100°F (-73°C).

High Pressure Application

Pressure 500 psig (34.5 bar) or higher is considered generally high pressure. In the high pressure system scratches, draw mark, nicks, flat spots, and dirt on tubing may cause leakage.

- For gas application, select the gas applicable tubing wall thickness from Table 2 to 13.
- Follow the suggestion on tubing selection, handling, and installation.



Technical Information

Stainless Steel Tubing

Table 2. Fractional Seamless Stainless Steel Tubing

Fully annealed austenitic Type 316 seamless tubing ASTM A 269 or ASTM A 213, or equivalent. Tubing to free from scratches, draw mark, dirt, dust, flat spots, and suitable for bending and flaring. recommended hardness : 80 HRB or less.

OD In.	Wall Thickness (in.)							
	0.028	0.035	0.049	0.065	0.083	0.095	0.109	0.12
1/4	4000	5100	7500	10200				
5/16		4000	5800	8000				
3/8		3300	4800	6500	7500			Working Pressure in psig
1/2		2400	3500	4700	6200			
5/8			2900	4000	5200	6000		
3/4			2400	3300	4200	4900	5800	
7/8			2000	2800	3600	4200	4800	
1				2400	3100	3600	4200	4700

Table 3. Metric Seamless Stainless Steel Tubing

OD mm	Wall Thickness (in.)									
	0.8	1.0	1.2	1.5	1.8	2.0	2.2	2.5	2.8	3.0
6	330	420	520	670						
8		310	380	490						
10		240	300	380						Working Pressure in bar
12		200	240	310	380	430				
14		180	220	280	340	390	430			
15		170	200	260	320	360	400			
16			190	240	300	330	370			
18			170	210	260	290	320	370		
20			150	190	230	260	290	330	380	
22			130	170	210	230	260	300	340	
25					180	200	230	260	300	320

- According to the requirements of ASME B31.3 Process Piping Code and ASME B31.1 Power Piping Code, allowable working pressure calculated at -20 to 100°F (-28 to 37°C) using S value of 20,000 psi.
 - Pressure calculations are based on **maximum O.D. and minimum wall thickness** and no allowance is made for corrosion and erosion. i.e., ASTM A269 1/2 in. OD x 0.035 in.WT: OD tolerance \pm 0.005 in., WT tolerance \pm 15%.
- Calculations are based on 0.505 in.OD x 0.0298 in. WT.
- Safety Factor is 3.75 to 1, considering ultimate tensile strength of 75,000 psi.

Weld Stainless Steel Tubing Allowable Working Pressure

To determine the working pressure of weld tubing to the requirements of ASME B31.3 Code, de-rating factors below must be applied. For single weld tubing multiply by 0.80, and for double weld tubing multiply by 0.85.

Example : SS316 seamless 1/2 in. O.D. x 0.065 in. WT allowable working pressure: 4700 psi.

To determine the work pressure of the single weld tubing, multiply 4700 psi by 0.80.

4700 psig x 0.80 = 3760 psig at -20 to 100°F (-28 to 37°C).

Temperature De-rating Factors

The pressure rating of DK-Lok port is governed by the connective tubing pressure rating.

To determine allowable working pressure at elevated temperature, multiply working pressure by applicable factor shown in table 4.

Example : SS316 seamless tubing 1/2 in. O.D. x 0.065 in.WT at 700 °F. 4700 psig x 0.82 = 3854 psi.

Allowable working pressure of SS316 seamless 1/2 in. O.D. x 0.065 in. WT is 3854 psi at 700 °F.

Table 4.

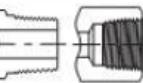
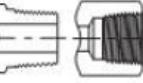
Temp.		Stainless steel 316
°F	°C	
100	38	1
200	93	1
300	149	1
400	204	0.97
500	260	0.9
600	316	0.85
700	371	0.82
800	427	0.8
900	482	0.78
1000	538	0.77
1200	649	0.37

DK-Lok Pipe End Pressure Rating

DK-Lok Tube Fitting is designed using industrial codes and Specification with additional Cutting-Edge Engineering on swaging action and sealing integrity. DK-Lok provides excellent leak-free sealing on high pressure gas, vacuum, impulse, thermal shock, heavy vibration, and many other stringent applications.

Table 5. DK-Lok Pipe Thread Designator

Legends • DK : DK-Lok pipe thread designator. • E : Equivalent.

	D K	Reference Specification	Tread Configuration	E
Tapered Pipe Thread	N	ASME B1.20.1 (NPT) SAE AS71051		
	R	ISO 7-1 BS EN 10226-1 (BSP) DIN 2999 (male thread only) JIS B0203 (PT)		RT
	G	ISO 228-1 BS 2779 (BSPP) JIS B0202 (PF) DIN 3852 FORM A		RS
	G B	ISO 228-1 BS 2779 (BSPP) JIS B0202 (PF) DIN 3852 FORM B		RP
	G P	ISO 228-1 BS 2779 (BSPP) JIS B0202 (PF) SAE J475 SAE J1926		PR
	G G	ISO 228-1 BS 2779 (BSPP) JIS B0202 (PF) EN 837-1& EN 837-3		RG

Parallel Pipe Thread	G R	ISO 228-1 BS 2779 (BSPP) JIS B0202 (PF) DIN 3852 FORM Z		RP
	G Y	ISO 228-1 BS 2779 (BSPP) JIS B0202 (PF) DIN 3852 FORM Y		RJ
	U	ASME B1.1 ISO R725 SAE J475 SAE J514		SR
	U O	ASME B1.1 ISO R725 SAE J475 SAE J514		OR
	U P	ASME B1.1 ISO R725 SAE J475 SAE J514		ST
	N O	ASME B1.20.1 SAE AS71051 SAE J514		OR

Pipe Thread Sealants

to ensure leak-free thread sealing. Sealant usually contains a lubricant.

Thread sealant fills the voids between the threads and prevents thread galling.

Wrap PTFE tape clockwise from first thread. Do not overhang the first thread the tape may get into the fluid system.

Pressure Equivalents:

1 bar = 100 kPa = 14.503 psi 1 kPa = 0.01 bar = 0.145 psi

1 psi = 0.069 bar = 6.89 kPa 1 kg/cm² = 0.98 bar = 14.22 psi



Technical Information

Table 5. Tapered Pipe Thread Pressure Ratings

Applicable to DK-Lok thread designator: N and R

ISO / NPT	SS316			
	Male		Female	
	psig	bar	psig	bar
20ksi				
1/16	14000	965	6600	455
1/8	10000	689	6400	441
1/4	8300	572	6500	448
3/8	8000	551	5200	358
1/2	7800	537	4800	331
3/4	7500	517	4600	317
1	5300	365	4400	303

Allowable Working Pressure

DK-Lok ISO Parallel Male Pipe Thread End

Applicable to DK-Lok thread designator: G, GB, and GP.

SS316 and carbon steel fitting thread ends up to 1 in. are rated to 5900 psi (406 bar)

DK-Lok SAE Straight Thread End

Applicable to DK-Lok thread designator: U, UO, and UP.

SS316 and carbon steel fitting thread ends up to 16U (1 5/16-12) are rated to 6000 psi (413 bar)

DK-Lok Tube Socket Weld End

Applicable to DK-Lok tube fitting part number: DCSW and DLSW.

SS316 and carbon steel fitting tube socket ends up to 1/2 in. (-8) are rated to 7,000 psi (482 bar)

DK-Lok Pipe Butt Weld End

Applicable to DK-Lok tube fitting part number: DCW and DLW.

SS316 and carbon steel fitting pipe butt weld ends up to 3/4 in. (-12P) are rated to 6,000 psi (413 bar)

- Pressure ratings are based on ASME B31.3 Process Piping Code, at ambient temperature.
- For further information about each size end rating, contact the authorized DK-Lok distributor in your region.

Table 6. Elastomer seal temperature ratings

Elastomer O-ring	Rating
NBR	-40 to 110°C (-40 to 230°F)
FKM	-28 to 204°C (-18 to 400°F)
FFKM (Kalrez®)	-30 to 275°C (-22 to 527°F)

Care must be taken as fitting with elastomer O-ring seal may have lower temperature rating.

Kalrez®: Dupont™

Ordering Information

Suffix the material designator to the part number.

Example: DU-8-VR-S

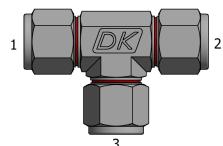
Table 7. Tapered Pipe Thread Pressure Ratings

Table 7. Material Designator

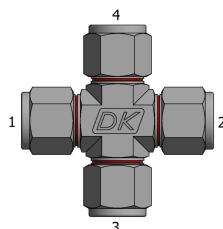
Material	Designator
Stainless Steel 316	S
Dual Grade	

Tee and Cross Fittings

Tee and Cross Fittings



Tee fitting part number is described by first the run (1 and 2) and next branch (3).



Cross fitting part number is described by first the run (1 and 2) and next the branch (3 and 4)

Table 8. Pipe Thread Size Designator

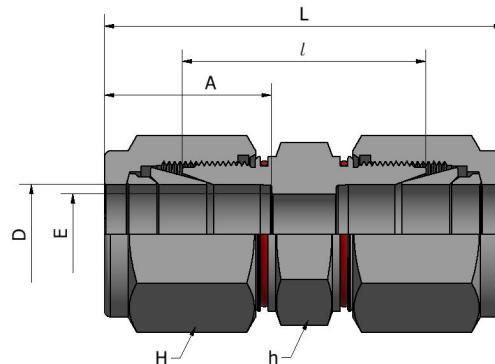
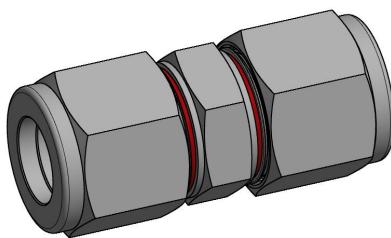
Nom. Size in.	1/16	1/8	1/4	3/8	1/2	3/4	1
Designator	1	2	4	6	8	12	16

Table 9. Tube O.D Designator

O.D in.	1/4	5/16	3/8	1/2	5/8	3/4	7/8	1
Designator	4	5	6	8	10	12	14	16
O.D mm	6mm	8mm	10mm	12mm	16mm	20mm	22mm	25mm
Designator	6M	8M	10M	12M	16M	20M	22M	25M

Union

DU-VR



Fractional

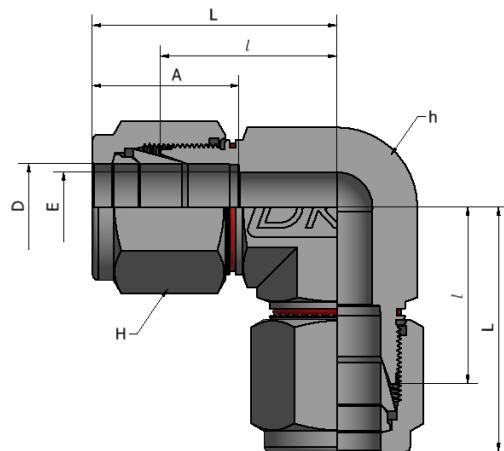
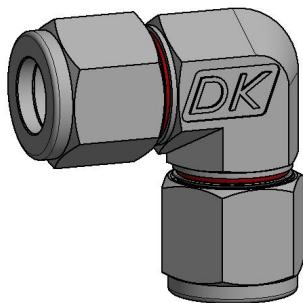
Part No.	Tube O.D		E Min.	Width across flat				A	l	L				
	D			h		H								
	In.	mm		In.	mm	In.	mm							
DU-4-VR	1/4	6.35	4.82	9/16	14.28	5/8	15.87	15.24	26.16	40.89				
DU-5-VR	5/16	7.93	6.35	5/8	15.87	11/16	17.46	16.25	28.19	42.92				
DU-6-VR	3/8	9.52	7.11	11/16	17.46	13/16	20.64	16.76	30.22	44.95				
DU-8-VR	1/2	12.7	10.41	13/16	20.64	7/8	22.22	22.86	30.98	51.3				
DU-10-VR	5/8	15.87	12.7	15/16	23.81	1	25.4	24.38	31.75	52.07				
DU-12-VR	3/4	19.05	15.74	1-1/16	26.98	1-1/8	28.58	24.38	33.27	53.59				
DU-14-VR	7/8	22.22	18.28	1-3/16	30.16	1-1/4	31.75	25.9	35.05	55.37				
DU-16-VR	1	25.4	22.35	1-3/8	34.92	1-1/2	38.1	31.24	40.38	64.77				

Metric

Part No.	Tube O.D	E Min.	Width across flat		A	l	L
			h	H			
DU-6M-VR	6	4.8	14	16	15.3	26.2	41
DU-8M-VR	8	6.4	16	17.46	16.2	28.2	43.2
DU-10M-VR	10	7.9	18	20.64	17.2	31	46.2
DU-12M-VR	12	9.5	20.64	22.22	22.8	31	51.2
DU-14M-VR	14	11.1	24	25	24.4	31.8	52
DU-15M-VR	15	11.9	24	25	24.4	31.8	52
DU-16M-VR	16	12.7	24	25	24.4	31.8	52
DU-18M-VR	18	15.1	27	30	24.4	33.3	53.5
DU-20M-VR	20	15.9	30	32	26	34.8	55
DU-22M-VR	22	18.3	30	32	26	34.8	55
DU-25M-VR	25	21.8	35	38	31.3	40.4	65

Union Elbow

DL-VR



Fractional

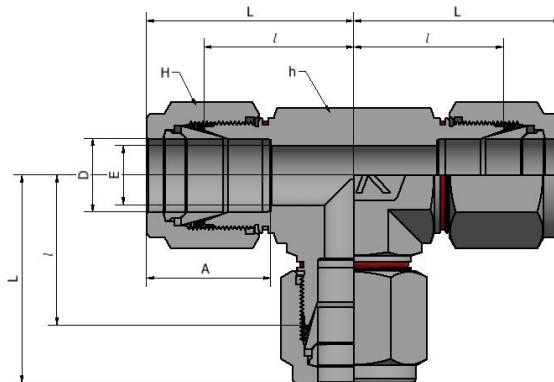
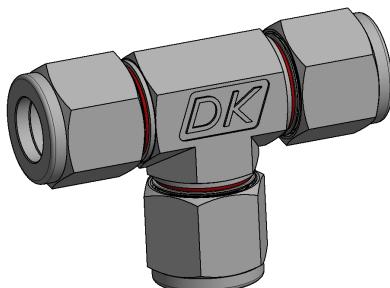
Part No.	Tube O.D D		E Min.	Width across flat				A	l	L			
	In.	mm		h		H							
	In.	mm		In.	mm	In.	mm						
DL-4-VR	1/4	6.35	4.82	9/16	14.28	5/8	15.87	15.24	26	33.37			
DL-5-VR	5/16	7.93	6.35	5/8	15.87	11/16	17.46	16.25	23.9	28.7			
DL-6-VR	3/8	9.52	7.11	11/16	17.46	13/16	20.64	16.76	26	33.37			
DL-8-VR	1/2	12.7	10.41	13/16	20.64	7/8	22.22	22.86	28	38.16			
DL-10-VR	5/8	15.87	12.7	15/16	23.81	1	25.4	24.38	28.70	38.8			
DL-12-VR	3/4	19.05	15.74	1-1/16	26.98	1-1/8	28.58	24.38	34	44.16			
DL-14-VR	7/8	22.22	18.28	1-3/8	34.92	1-1/2	38.1	25.9	36.83	49.02			
DL-16-VR	1	25.4	22.35	1-3/8	34.92	1-1/2	38.1	31.24	39.5	51.7			

Metric

Part No.	Tube O.D D	E Min.	Width across flat		A	l	L
			h	H			
DL-6M-VR	6	4.8	14.28	16	15.3	26	33.4
DL-8M-VR	8	6.4	15.87	17.46	16.2	23.9	31.4
DL-10M-VR	10	7.9	17.46	20.64	17.2	26	33.6
DL-12M-VR	12	9.5	20.64	22.22	22.8	28	38.1
DL-15M-VR	15	11.9	25.4	25	24.4	28.7	38.8
DL-16M-VR	16	12.7	25.4	25	24.4	28.7	38.8
DL-18M-VR	18	15.1	27	30	24.4	29.7	39.8
DL-20M-VR	20	15.9	34.92	32	26	32.5	42.6
DL-22M-VR	22	18.3	34.92	32	26	32.5	42.6
DL-25M-VR	25	21.8	34.92	38	31.3	36.8	49.1

Union Tee

DT-VR



Fractional

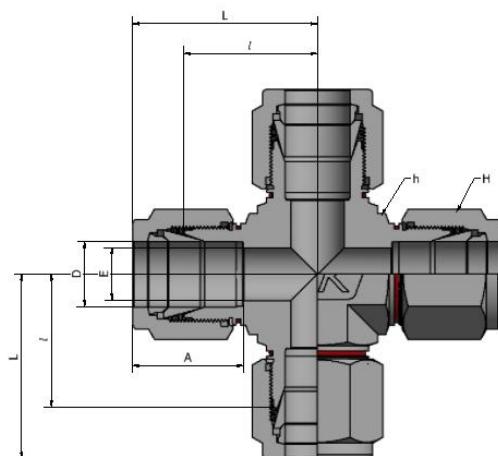
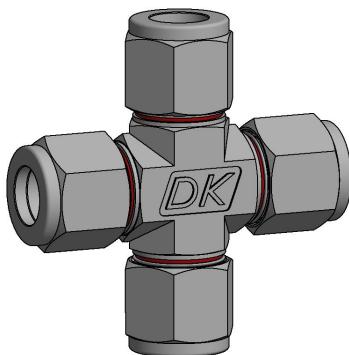
Part No.	Tube O.D D		E Min.	Width across flat				A	l	L				
				h		H								
	In.	mm		In.	mm	In.	mm							
DT-4-VR	1/4	6.35	4.82	9/16	14.28	5/8	15.87	15.24	26	33.37				
DT-5-VR	5/16	7.93	6.35	5/8	15.87	11/16	17.46	16.25	21.33	28.7				
DT-6-VR	3/8	9.52	7.11	11/16	17.46	13/16	20.64	16.76	26	33.37				
DT-8-VR	1/2	12.7	10.41	13/16	20.64	7/8	22.22	22.86	28	38.16				
DT-10-VR	5/8	15.87	12.7	15/16	23.81	1	25.4	24.38	28.7	38.8				
DT-12-VR	3/4	19.05	15.74	1-1/16	26.98	1-1/8	28.58	24.38	34	44.16				
DT-14-VR	7/8	22.22	18.28	1-3/8	34.92	1-1/4	31.75	25.9	34.54	44.7				
DT-16-VR	1	25.4	22.35	1-3/8	34.92	1-1/2	38.1	31.24	39.5	51.7				

Metric

Part No.	Tube O.D D	E Min.	Width across flat		A	l	L
			h	H			
DT-6M-VR	6	4.8	14.28	16	15.3	26	33.4
DT-8M-VR	8	6.4	15.87	17.46	16.2	23.9	31.4
DT-10M-VR	10	7.9	17.46	20.64	17.2	26	33.6
DT-12M-VR	12	9.5	20.64	22.22	22.8	28	38.1
DT-15M-VR	15	11.9	25.4	25	24.4	28.7	38.8
DT-16M-VR	16	12.7	25.4	25	24.4	28.7	38.8
DT-18M-VR	18	15.1	27	30	24.4	29.7	39.8
DT-20M-VR	20	15.9	34.92	32	26	32.5	42.6
DT-22M-VR	22	18.3	34.92	32	26	32.5	42.6
DT-25M-VR	25	21.8	34.92	38	31.3	36.8	49.1

Union Cross

DX-VR



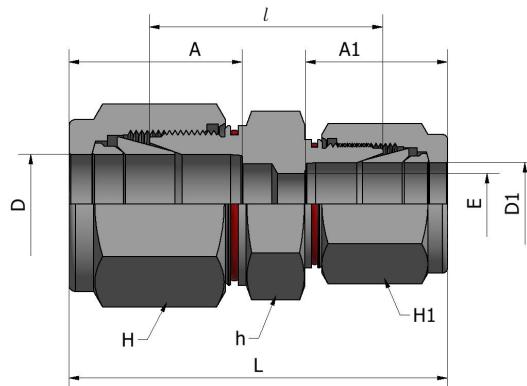
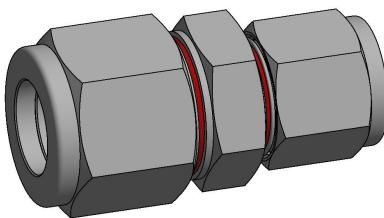
Fractional

Part No.	Tube O.D		E Min.	Width across flat				A	l	L				
	D			h	H									
	In.	mm			In.	mm	A							
DX-4-VR	1/4	6.35	4.82	9/16	14.28	5/8	15.87	15.24	26	33.37				
DX-5-VR	5/16	7.93	6.35	5/8	15.87	11/16	17.46	16.25	21.33	28.7				
DX-6-VR	3/8	9.52	7.11	11/16	17.46	13/16	20.64	16.76	26	33.37				
DX-8-VR	1/2	12.7	10.41	13/16	20.64	7/8	22.22	22.86	28	38.16				
DX-10-VR	5/8	15.87	12.7	15/16	23.81	1	25.4	24.38	28.7	38.8				
DX-12-VR	3/4	19.05	15.74	1-1/16	26.98	1-1/8	28.58	24.38	34	44.16				
DX-14-VR	7/8	22.22	18.28	1-3/8	34.92	1-1/4	31.75	25.9	34.54	44.7				
DX-16-VR	1	25.4	22.35	1-3/8	34.92	1-1/2	38.1	31.24	39.5	51.7				

Metric

Part No.	Tube O.D	E Min.	Width across flat		A	l	L
			h	H			
DX-6M-VR	6	4.8	14.28	16	15.3	26	33.4
DX-8M-VR	8	6.4	15.87	17.46	16.2	23.9	31.4
DX-10M-VR	10	7.9	17.46	20.64	17.2	26	33.6
DX-12M-VR	12	9.5	20.64	22.22	22.8	28	38.1
DX-15M-VR	15	11.9	25.4	25	24.4	28.7	38.8
DX-16M-VR	16	12.7	25.4	25	24.4	28.7	38.8
DX-18M-VR	18	15.1	27	30	24.4	29.7	39.8
DX-20M-VR	20	15.9	34.92	32	26	32.5	42.6
DX-22M-VR	22	18.3	34.92	32	26	32.5	42.6
DX-25M-VR	25	21.8	34.92	38	31.3	36.8	49.1

Reducing Union

DUR-VR**Fractional**

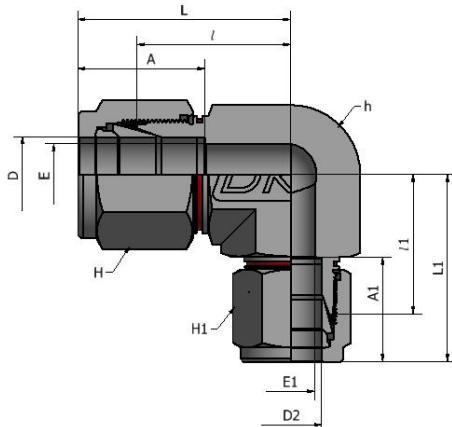
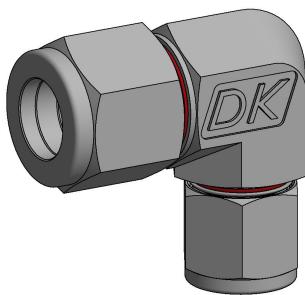
Part No.	Tube O.D				E Min.	Width across flat						A	A1		L						
	D		D2			h			H		H1										
	In.	mm	In.	mm		In.	mm	In.	mm	In.	mm										
DUR5-4-VR	5/16	7.93	1/4	6.35	4.82	5/8	15.87	11/16	17.46	5/8	15.87	16.25	15.24	27.43	42.16						
DUR6-4-VR	3/8	9.52	1/4	6.35	4.82	11/16	17.46	13/16	20.64	5/8	15.87	16.76	15.24	28.44	43.18						
DUR6-5-VR	3/8	9.52	5/16	7.93	6.35	11/16	17.46	13/16	20.64	11/16	17.46	16.76	16.25	29.46	44.19						
DUR8-4-VR	1/2	12.7	1/4	6.35	4.82	13/16	20.64	7/8	22.22	5/8	15.87	22.86	15.24	29.46	46.99						
DUR8-6-VR	1/2	12.7	3/8	9.52	7.11	13/16	20.64	7/8	22.22	13/16	20.64	22.86	16.76	30.98	48.51						
DUR10-6-VR	5/8	15.87	3/8	9.52	7.11	15/16	23.81	1	25.4	13/16	20.64	24.38	16.76	31.75	49.27						
DUR10-8-VR	5/8	15.87	1/2	12.7	10.41	15/16	23.81	1	25.4	7/8	22.22	24.38	22.86	31.75	52.07						
DUR12-4-VR	3/4	19.05	1/4	6.35	4.82	1-1/16	26.98	1-1/8	28.58	5/8	15.87	24.38	15.24	31.75	49.27						
DUR12-6-VR	3/4	19.05	3/8	9.52	7.11	1-1/16	26.98	1-1/8	28.58	13/16	20.64	24.38	16.76	33.27	50.8						
DUR12-8-VR	3/4	19.05	1/2	12.7	10.41	1-1/16	26.98	1-1/8	28.58	7/8	22.22	24.38	22.86	33.27	53.59						
DUR12-10-VR	3/4	19.05	5/8	15.87	12.7	1-1/16	26.98	1-1/8	28.58	1	25.4	24.38	33.27	53.59							
DUR16-8-VR	1	25.4	1/2	12.7	10.41	1-3/8	34.92	1-1/2	38.1	7/8	22.22	31.24	22.86	40.89	63.24						
DUR16-12-VR	1	25.4	3/4	19.05	15.74	1-3/8	34.92	1-1/2	38.1	1-1/8	28.58	31.24	24.38	40.38	62.73						

Metric

Part No.	Tube O.D		E Min.	Width across flat			A	A1	l	L
	D	D1		h	H	H1				
DUR8M-6M-VR	8	6	4.8	16	17.46	16	16.2	15.3	27.4	42.3
DUR10M-6M-VR	10	6	4.8	18	20.64	16	17.2	15.3	29.5	44.5
DUR10M-8M-VR	10	8	6.4	18	20.64	17.46	17.2	16.2	30	45.1
DUR12M-6M-VR	12	6	4.8	20.64	22.22	16	22.8	15.3	29.5	47
DUR12M-8M-VR	12	8	6.4	20.64	22.22	17.46	22.8	16.2	30.2	47.8
DUR12M-10M-VR	12	10	7.9	20.64	22.22	20.64	22.8	17.2	31	48.7
DUR15M-12M-VR	15	12	9.8	24	25	22.22	24.4	17.2	31.8	52.5
DUR16M-10M-VR	16	10	7.9	24	25	20.64	24.4	17.2	31.8	49.5
DUR16M-12M-VR	16	12	9.5	24	25	22.22	24.4	22.8	31.8	52
DUR18M-10M-VR	18	10	7.9	27	30	20.64	24.4	17.2	33	51
DUR18M-12M-VR	18	12	9.5	27	30	22.22	24.4	22.8	33.3	53.5
DUR25M-18M-VR	25	18	15.1	35	38	30	31.3	24.4	38.6	61
DUR25M-20M-VR	25	20	15.9	35	38	32	31.3	26	39.9	62.3

Reducing Union Elbow

DLR-VR



Fractional

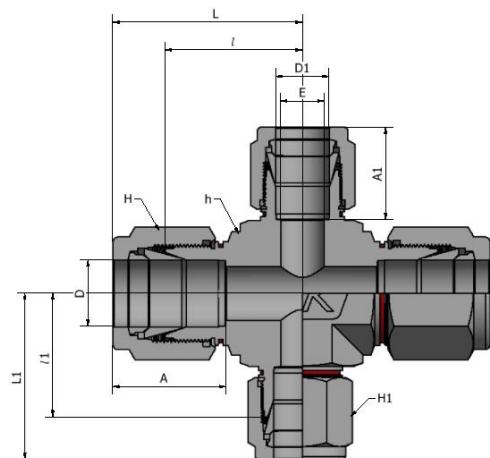
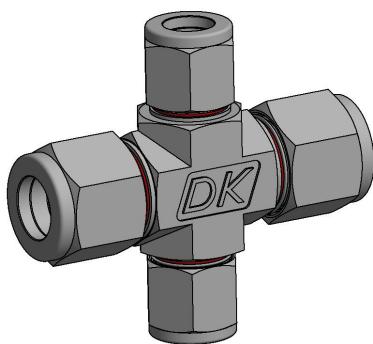
Part No.	Tube O.D				E Min.	E1 Min	Width across flat						A	A1	l	l1	L	L1								
	D		D1				h			H		H1														
	In.	mm	In.	mm			In.	mm	In.	mm	In.	mm														
DLR6-4-VR	3/8	9.52	1/4	6.35	7.11	4.82	11/16	17.46	13/16	20.64	5/8	15.87	16.76	15.24	23.1	21.92	30.47	29.29								
DLR8-4-VR	1/2	12.7	1/4	6.35	10.41	4.82	13/16	20.64	7/8	22.22	5/8	15.87	22.86	15.24	25.9	24.4	36.06	31.77								
DLR8-6-VR	1/2	12.7	3/8	9.52	10.41	7.11	13/16	20.64	7/8	22.22	11/16	17.46	22.86	16.76	25.9	25.9	36.06	33.27								

Metric

Part No.	Tube O.D				E Min.	Width across flat			A	A1	l	l1	L	L1							
	D		D1			h															
	In.	mm	In.	mm		In.	mm	In.													
DUR8M-4-VR	8	1/4	4.8	16	16	17.46	16	16.2	15.3	27.4	20.6	28.7	42.3								

Reducing Union Cross

DXR-VR



Fractional

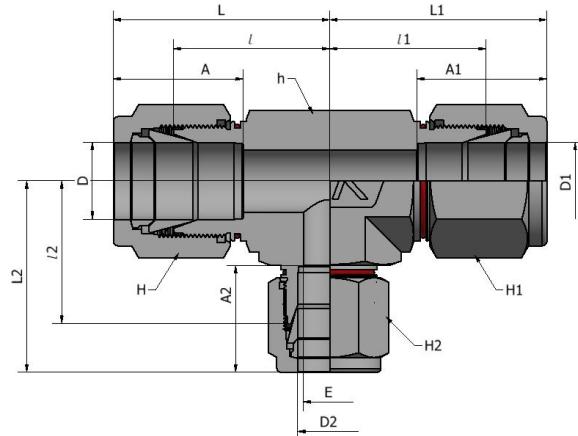
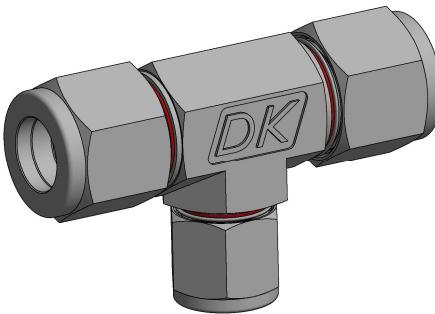
Part No.	Port1	Port2	Port3	Port4	E Min.	Width across flat						A	A1	l	l1	L				
	D		D1			h			H		H1									
	In.	mm	In.	mm		In.	mm	In.	In.	mm	In.	mm								
DXR12-12-6-6-VR	3/4	19.05	3/8	9.52	7.11	1-1/16	26.98	1-1/8	28.58	13/16	20.64	24.38	16.76	29.71	39.87	37.07				

Metric

Part No.	Tube O.D				E Min.	Width across flat						A	A1	l	l1	L		
	D		D1			h			H		H1							
In.	mm	In.	mm	In.	mm	In.	mm	In.	In.	mm	In.	mm						
DXR16M6M6M6M-VR	8	6	4.8	16	17.46	16	16.2	15.3	27.4	20.6	28.7	38.8						

Reducing Union

DTR-VR



Fractional

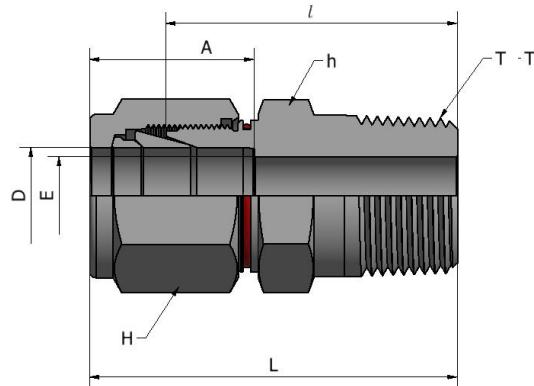
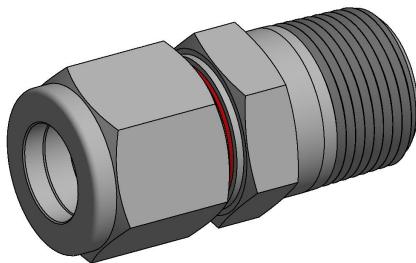
Part No.	Tube O.D						E Min.	Width across flat								A	A1	A2	l	l1	l2	L	L2	L3											
	Port1 D		Port2 D1		Port3 D2			h		H		H1		H2																					
	In.	mm	In.	Mm	In.	Mm		In.	mm	In.	mm	In.	mm	In.	mm																				
DTR4-4-6-VR	1/4	6.35	1/4	6.35	3/8	9.52	4.8	11/16	17.46	5/8	15.87	5/8	15.87	13/16	20.64	15.24	15.24	16.76	21.92	21.92	26	29.28	29.28	33.37											
DTR4-8-8-VR	1/4	6.35	1/2	12.7	1/2	12.7	4.8	13/16	20.64	5/8	15.87	7/8	22.22	7/8	22.22	15.24	22.86	22.86	24.4	28	28	31.76	38.16	38.16											
DTR6-4-6-VR	3/8	9.52	1/4	6.35	3/8	9.52	4.8	11/16	17.46	13/16	20.64	5/8	15.87	13/16	20.64	16.76	15.24	16.76	26	23.1	26	33.37	30.46	33.37											
DTR6-6-4-VR	3/8	9.52	3/8	9.52	1/4	6.35	4.8	11/16	17.46	13/16	20.64	13/16	20.64	5/8	15.87	16.76	16.76	15.24	26	26	21.92	33.37	33.37	29.28											
DTR6-6-8-VR	3/8	9.52	3/8	9.52	1/2	12.7	7.1	13/16	20.64	13/16	20.64	13/16	20.64	7/8	22.22	16.76	16.76	22.86	25.9	25.9	28	33.26	33.26	38.16											
DTR8-4-6-VR	1/2	12.7	1/4	6.35	3/8	9.52	4.8	13/16	20.64	7/8	22.22	5/8	15.87	13/16	20.64	16.76	15.24	16.76	28	25.9	25.9	38.16	33.26	33.26											
DTR8-4-8-VR	1/2	12.7	1/4	6.35	1/2	12.7	4.8	13/16	20.64	7/8	22.22	5/8	15.87	7/8	22.22	15.24	22.86	22.86	28	24.4	28	38.16	31.76	38.16											
DTR8-6-6-VR	1/2	12.7	3/8	9.52	3/8	9.52	7.1	13/16	20.64	7/8	22.22	13/16	20.64	13/16	20.64	22.86	16.76	16.76	28	25.9	25.9	38.16	33.26	33.26											
DTR8-8-4-VR	1/2	12.7	1/2	12.7	1/4	6.35	4.8	13/16	20.64	7/8	22.22	7/8	22.22	5/8	15.87	22.86	15.24	22.86	28	28	28	38.16	38.16	31.76											
DTR8-8-6-VR	1/2	12.7	1/2	12.7	3/8	9.52	7.1	13/16	20.64	7/8	22.22	7/8	22.22	13/16	20.64	22.86	22.86	16.76	28	28	25.9	38.16	38.16	33.26											
DTR10-10-6-VR	5/8	15.87	5/8	15.87	3/8	9.52	7.1	15/16	23.81	1	25.4	1	25.4	13/16	20.64	24.38	24.38	16.76	28.7	28.7	28.7	38.86	38.86	36.06											
DTR12-8-12-VR	3/4	19.05	1/2	12.7	3/4	19.05	10.41	1-1/16	28.58	1-1/8	28.58	7/8	22.22	1-1/8	28.58	24.38	24.38	22.86	34	29.71	34	44.16	39.87	44.16											
DTR12-12-4-VR	3/4	19.05	3/4	19.05	1/4	6.35	4.8	1-1/16	28.58	1-1/8	28.58	1-1/8	28.58	5/8	15.87	24.38	24.38	15.24	34	34	28.21	44.16	44.16	35.57											
DTR12-12-6-VR	3/4	19.05	3/4	19.05	3/8	9.52	7.1	1-1/16	28.58	1-1/8	28.58	1-1/8	28.58	13/16	20.64	24.38	24.38	16.76	34	34	29.71	44.16	44.16	35.57											
DTR12-12-8-VR	3/4	19.05	3/4	19.05	1/2	12.7	10.41	1-1/16	28.58	1-1/8	28.58	1-1/8	28.58	7/8	22.22	24.38	24.38	22.86	34	34	29.71	44.16	44.16	38.37											
DTR12-12-16-VR	3/4	19.05	3/4	19.05	1	25.4	16	1-3/8	34.92	1-1/8	28.58	1-1/8	28.58	1-1/2	38.1	24.38	24.38	31.24	34.43	34.43	39.5	49.02	49.02	51.7											
DTR14-14-8-VR	7/8	22.22	7/8	22.22	1/2	12.7	10.41	1-1/4	31.75	1-1/4	31.75	1-1/4	31.75	7/8	22.22	25.9	25.9	22.86	34.54	34.54	34.54	44.7	44.7	44.7											
DTR16-12-12-VR	1	25.4	3/4	19.05	3/4	19.05	16	1-3/8	34.92	1-1/2	38.1	1-1/8	28.58	1-1/8	28.58	31.24	24.38	24.38	39.5	36.83	35.54	51.7	45.7	45.7											
DTR16-16-4-VR	1	25.4	1	25.4	1/4	6.35	4.8	1-3/8	34.92	1-1/2	38.1	1-1/2	38.1	5/8	15.87	31.24	15.24	39.5	39.5	33.04	51.7	51.7	40.4												
DTR16-16-6-VR	1	25.4	1	25.4	3/8	9.52	7.1	1-3/8	34.92	1-1/2	38.1	1-1/2	38.1	13/16	20.64	31.24	31.24	16.76	39.5	39.5	34.54	51.7	51.7	41.9											
DTR16-16-8-VR	1	25.4	1	25.4	1/2	12.7	10.41	1-3/8	34.92	1-1/2	38.1	1-1/2	38.1	7/8	22.22	31.24	31.24	22.86	39.5	39.5	34.54	51.7	51.7	44.7											
DTR16-16-12-VR	1	25.4	1	25.4	3/4	19.05	16	1-3/8	34.92	1-1/2	38.1	1-1/2	38.1	1-1/8	28.58	31.24	24.38	24.38	39.5	39.5	35.54	51.7	51.7	45.7											

Metric

Part No.	Tube O.D						E Min.	Width across flat				A	A1	A2	l	l1	l2	L	L1	L2
	Port1 D	Port D1	Port D2					h	H	H1	H2									
DTR8M-8M-6M-VR	8	8	6	4.8	15.87	17.46	17.46	16	16.2	16.2	15.3	23.9	23.9	20.5	31.4	31.4	28			
DTR10M-10M-6M-VR	10	10	6	4.8	17.46	20.64	20.64	16	17.2	17.2	15.3	26	26	22.4	33.6	33.6	29.8			
DTR10M-10M-12M-VR	10	10	12	7.9	20.64	20.64	20.64	22.22	17.2	17.2	22.8	25.9	25.9	28	33.5	33.5	38.1			
DTR12M-6M-10M-VR	12	6	10	4.8	20.64	22.22	16	20.64	22.8	15.3	17.2	28	24.4	25.9	38.1	33.5	33.5			
DTR12M-6M-12M-VR	12	6	12	7.9	20.64	22.22	16	22.22	22.8	15.3	22.8	28	24.4	25.9	38.1	33.5	33.5			
DTR12M-10M-10M-VR	12	10	10	7.9	20.64	22.22	20.64	20.64	22.8	17.2	17.2	28	25.9	25.9	38.1	33.5	33.5			
DTR12M-12M-10M-VR	12	12	10	7.9	20.64	22.22	22.22	20.64	22.8	22.8	17.2	28	25.9	38.1	33.5	33.5	33.5			
DTR12M-12M-6M-VR	12	12	6	4.8	20.64	22.22	22.22	16	22.8	22.8	15.3	28	28	24.4	38.1	38.1	31.8			
DTR15M-15M-12M-VR	15	15	12	9.8	25.4	25	25	25.22	24.4	24.4	22.8	28.7	28.7	28.7	38.8	38.8	38.8			
DTR16M-16M-12M-VR	16	16	12	9.8	25.4	25	25	22.22	24.4	24.4	22.8	28.7	28.7	28.7	38.8	38.8	38.8			
DTR18M-18M-12M-VR	18	18	12	9.8	27	30	30	22.22	24.4	24.4	22.8	29.7	29.7	28.2	39.8	39.8	38.3			
DTR20M-12M-20M-VR	20	12	20	9.8	34.9	32	32	22.22	32	26	22.8	26	32.5	32.5	42.6	42.6	42.6			
DTR20M-20M-6M-VR	20	20	6	4.8	34.9	32	32	16	26	15.3	32.5	32.5	31	42.6	42.6	42.6	38.4			
DTR20M-20M-10M-VR	20	20	10	7.9	34.9	32	32	20.64	26	26	17.2	32.5	32.5	32.5	42.6	42.6	40.1			
DTR20M-20M-12M-VR	20	20	12	9.8	34.9	32	32	22.22	26	26	22.8	32.5	32.5	32.5	42.6	42.6	42.6			
DTR20M-20M-25M-VR	20	20	25	15.9	34.9	32	32	38	26	26	31.3	34.3	34.3	36.8	44.4	44.4	49.1			
DTR22M-22M-12M-VR	22	22	12	9.8	34.9	32	32	22.22	26	26	22.8	32.5	32.5	32.5	42.6	42.6	42.6			
DTR25M-20M-20M-VR	25	20	20	15.9	34.9	38	32	31.3	26	26	36.8	34.3	34.3	44.4	44.4	44.4	44.4			
DTR25M-25M-10M-VR	25	25	10	7.9	34.9	38	38	20.64	31.3	31.3	17.2	36.8	36.8	34.3	49.1	49.1	44.4			
DTR25M-25M-12M-VR	25	25	12	9.8	34.9	38	38	22.22	31.3	31.3	22.8	36.8	36.8	34.3	49.1	49.1	44.4			

Male Connector

DMC-N-VR

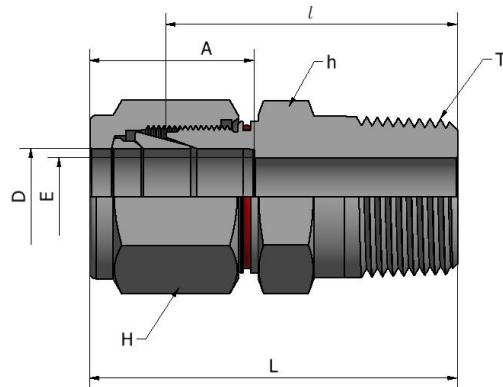
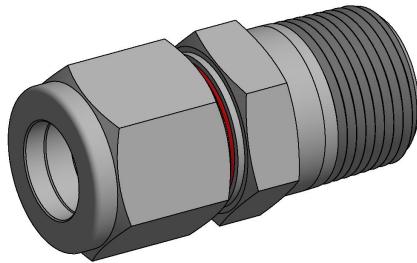


Fractional

Part No.	Tube O.D D		T NPT	E Min.	Width across flat				A		L			
	In.	mm			h		H							
					In.	mm	In.	mm						
DMC4-1N-VR	1/4	6.35	1/16	4.82	9/16	14.28	5/8	15.87	15.24	25.4	32.76			
DMC4-2N-VR	1/4	6.35	1/8	4.82	9/16	14.28	5/8	15.87	15.24	25.4	32.76			
DMC4-4N-VR	1/4	6.35	1/4	4.82	9/16	14.28	5/8	15.87	15.24	30.48	37.84			
DMC4-6N-VR	1/4	6.35	3/8	4.82	11/16	17.46	5/8	15.87	15.24	30.98	38.35			
DMC4-8N-VR	1/4	6.35	1/2	4.82	7/8	22.22	5/8	15.87	15.24	37.33	44.7			
DMC4-12N-VR	1/4	6.35	3/4	4.82	1-1/16	26.98	5/8	15.87	15.24	38.86	46.22			
DMC5-2N-VR	5/16	7.93	1/8	4.82	5/8	15.87	11/16	17.46	16.25	26.67	34.03			
DMC5-4N-VR	5/16	7.93	1/4	6.35	5/8	15.87	11/16	17.46	16.25	31.24	38.6			
DMC5-6N-VR	5/16	7.93	3/8	6.35	11/16	17.46	11/16	17.46	16.25	31.75	39.11			
DMC5-8N-VR	5/16	7.93	1/2	6.35	7/8	22.22	11/16	17.46	16.25	38.11	45.6			
DMC6-2N-VR	3/8	9.52	1/8	4.82	5/8	15.87	13/16	20.64	16.76	27.94	35.3			
DMC6-4N-VR	3/8	9.52	1/4	7.11	5/8	15.87	13/16	20.64	16.76	32.51	39.87			
DMC6-6N-VR	3/8	9.52	3/8	7.11	11/16	17.46	13/16	20.64	16.76	32.51	39.87			
DMC6-8N-VR	3/8	9.52	1/2	7.11	7/8	22.22	13/16	20.64	16.76	38.86	46.22			
DMC6-12N-VR	3/8	9.52	3/4	7.11	1-1/16	26.98	13/16	20.64	16.76	40.38	47.75			
DMC6-16N-VR	3/8	9.52	1	7.11	1-3/8	34.92	13/16	20.64	16.76	47	54.37			
DMC8-2N-VR	1/2	12.7	1/8	4.82	13/16	20.64	7/8	22.22	22.86	28.7	38.86			
DMC8-4N-VR	1/2	12.7	1/4	7.11	13/16	20.64	7/8	22.22	22.86	33.27	43.43			
DMC8-6N-VR	1/2	12.7	3/8	9.65	13/16	20.64	7/8	22.22	22.86	33.27	43.43			
DMC8-8N-VR	1/2	12.7	1/2	10.41	7/8	22.22	7/8	22.22	22.86	38.86	49.02			
DMC8-12N-VR	1/2	12.7	3/4	10.41	1-1/16	26.98	7/8	22.22	22.86	40.38	50.24			
DMC8-16N-VR	1/2	12.7	1	10.41	1-3/8	34.92	7/8	22.22	22.86	46.99	57.15			
DMC10-4N-VR	5/8	15.87	1/4	6.35	15/16	23.81	1	25.4	24.38	33.8	43.96			
DMC10-6N-VR	5/8	15.87	3/8	9.65	15/16	23.81	1	25.4	24.38	34.03	44.19			
DMC10-8N-VR	5/8	15.87	1/2	11.93	15/16	23.81	1	25.4	24.38	38.86	49.02			
DMC10-12N-VR	5/8	15.87	3/4	12.7	1-1/16	26.98	1	25.4	24.38	40.38	50.54			
DMC12-6N-VR	3/4	19.05	3/8	9.65	1-1/16	26.98	1-1/8	28.58	24.38	34.03	44.19			
DMC12-8N-VR	3/4	19.05	1/2	11.93	1-1/16	26.98	1-1/8	28.58	24.38	40.38	50.54			
DMC12-12N-VR	3/4	19.05	3/4	15.74	1-1/16	26.98	1-1/8	28.58	24.38	40.38	50.54			
DMC12-16N-VR	3/4	19.05	1	15.74	1-3/8	34.92	1-1/8	28.58	24.38	46.99	57.15			
DMC14-8N-VR	7/8	22.22	1/2	11.9	1-3/16	30.16	1-1/4	31.75	25.9	40.38	50.54			
DMC14-12N-VR	7/8	22.22	3/4	15.74	1-3/16	30.16	1-1/4	31.75	25.9	40.38	50.54			
DMC14-16N-VR	7/8	22.22	1	18.28	1-3/8	34.92	1-1/4	31.75	25.9	46.99	57.15			
DMC16-6N-VR	1	25.4	3/8	9.65	1-3/8	34.92	1-1/2	38.1	31.24	40.3	52.49			
DMC16-8N-VR	1	25.4	1/2	11.93	1-3/8	34.92	1-1/2	38.1	31.24	45.21	57.4			
DMC16-12N-VR	1	25.4	3/4	15.74	1-3/8	34.92	1-1/2	38.1	31.24	45.21	57.4			
DMC16-16N-VR	1	25.4	1	22.35	1-3/8	34.92	1-1/2	38.1	31.24	50.03	62.23			

Male Connector

DMC-N-VR

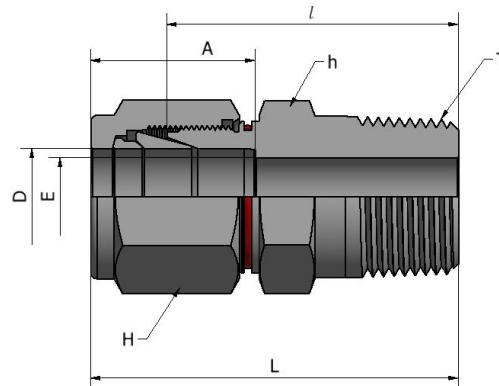
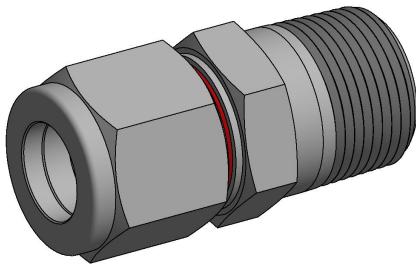


Metric

Part No.	Tube O.D D	T NPT	E Min.	Width across flat		A	l	L
				h	H			
DMC6M-2N-VR	6	1/8	4.8	14	16	15.3	25.4	32.8
DMC6M-4N-VR	6	1/4	4.8	14	16	15.3	30.2	37.6
DMC6M-6N-VR	6	3/8	4.8	18	16	15.3	31	38.4
DMC6M-8N-VR	6	1/2	4.8	22	16	15.3	37.3	44
DMC8M-2N-VR	8	1/8	4.8	16	17.46	16.2	26.7	34.2
DMC8M-4N-VR	8	1/4	6.4	16	17.46	16.2	31.2	38.7
DMC8M-6N-VR	8	3/8	6.4	18	17.46	16.2	31.8	39.2
DMC8M-8N-VR	8	1/2	6.4	22	17.46	16.2	37.3	44.8
DMC10M-2N-VR	10	1/8	4.8	18	20.64	17.2	28.7	36.3
DMC10M-4N-VR	10	1/4	7.1	18	20.64	17.2	33.3	40.9
DMC10M-6N-VR	10	3/8	7.9	18	20.64	17.2	33.3	40.9
DMC10M-8N-VR	10	1/2	7.9	22	20.64	17.2	38.1	45.7
DMC10M-12N-VR	10	3/4	7.9	27	20.64	17.2	38.9	46.5
DMC12M-2N-VR	12	1/8	4.8	22	22.22	22.8	28.7	38.8
DMC12M-4N-VR	12	1/4	7.1	22	22.22	22.8	33.3	43.4
DMC12M-6N-VR	12	3/8	9.5	22	22.22	22.8	33.3	43.4
DMC12M-8N-VR	12	1/2	9.5	22	22.22	22.8	38.1	48.2
DMC12M-12N-VR	12	3/4	9.5	27	22.22	22.8	38.9	49
DMC14M-4N-VR	14	1/4	6.4	24	25	24.4	34	44.1
DMC14M-6N-VR	14	3/8	9.5	24	25	24.4	34	44.1
DMC14M-8N-VR	14	1/2	11.1	24	25	24.4	34	44.1
DMC15M-8N-VR	15	1/2	11.9	24	25	24.4	38.9	49
DMC16M-4N-VR	16	1/4	7.1	24	25	24.4	34	44.1
DMC16M-6N-VR	16	3/8	9.5	24	25	24.4	34	44.1
DMC16M-8N-VR	16	1/2	11.9	24	25	24.4	38.9	49
DMC16M-12N-VR	16	3/4	12.7	27	25	24.4	38.9	49
DMC18M-8N-VR	18	1/2	11.9	27	30	24.4	40.4	50.5
DMC18M-12N-VR	18	3/4	15.1	27	30	24.4	40.4	50.5
DMC20M-8N-VR	20	1/2	11.9	30	32	26	42.2	52.3
DMC20M-12N-VR	20	3/4	15.9	30	32	26	42.2	52.3
DMC22M-12N-VR	22	3/4	15.9	30	32	26	42.2	52.3
DMC22M-16N-VR	22	1	18.3	35	32	26	47.8	57.9
DMC25M-8N-VR	25	1/2	11.9	35	38	31.3	45.2	57.5
DMC25M-12N-VR	25	3/4	15.9	35	38	31.3	45.2	57.5
DMC25M-16N-VR	25	1	21.8	35	38	31.3	50	62.3

Male Connector

DMC-R-VR

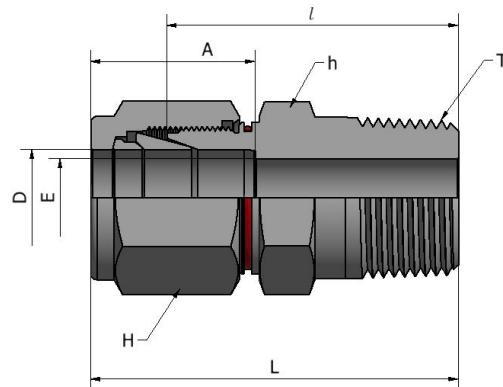
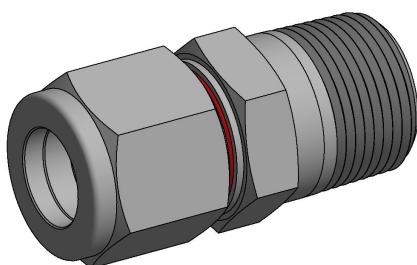


Fractional

Part No.	Tube O.D D		T PT	E Min.	Width across flat				A	l	L			
	In.	mm			h		H							
					In.	mm	In.	mm						
DMC4-2R-VR	1/4	6.35	1/8	4.82	9/16	14.28	5/8	15.87	15.24	25.4	32.76			
DMC4-4R-VR	1/4	6.35	1/4	4.82	9/16	14.28	5/8	15.87	15.24	30.48	37.84			
DMC4-6R-VR	1/4	6.35	3/8	4.82	11/16	17.46	5/8	15.87	15.24	30.98	38.35			
DMC4-8R-VR	1/4	6.35	1/2	4.82	7/8	22.22	5/8	15.87	15.24	37.33	44.7			
DMC5-2R-VR	5/16	7.93	1/8	4.82	5/8	15.87	11/16	17.46	16.25	26.67	34.03			
DMC5-4R-VR	5/16	7.93	1/4	6.35	5/8	15.87	11/16	17.46	16.25	31.24	38.6			
DMC5-16R-VR	5/16	7.93	1	6.35	1-3/8	34.92	11/16	17.46	16.25	46.2	50			
DMC6-2R-VR	3/8	9.52	1/8	4.82	5/8	15.87	13/16	20.64	16.76	27.94	35.3			
DMC6-4R-VR	3/8	9.52	1/4	7.11	5/8	15.87	13/16	20.64	16.76	32.51	39.87			
DMC6-6R-VR	3/8	9.52	3/8	7.11	11/16	17.46	13/16	20.64	16.76	32.51	39.87			
DMC6-8R-VR	3/8	9.52	1/2	7.11	7/8	22.22	13/16	20.64	16.76	38.86	46.22			
DMC6-12R-VR	3/8	9.52	3/4	7.11	1-1/16	26.98	13/16	20.64	16.76	40.38	47.75			
DMC8-2R-VR	1/2	12.7	1/8	4.82	13/16	20.64	7/8	22.22	22.86	28.7	38.86			
DMC8-4R-VR	1/2	12.7	1/4	7.11	13/16	20.64	7/8	22.22	22.86	33.27	43.43			
DMC8-6R-VR	1/2	12.7	3/8	9.65	13/16	20.64	7/8	22.22	22.86	33.27	43.43			
DMC8-8R-VR	1/2	12.7	1/2	10.41	7/8	22.22	7/8	22.22	22.86	38.86	49.02			
DMC8-12R-VR	1/2	12.7	3/4	10.41	1-1/16	26.98	7/8	22.22	22.86	40.38	50.24			
DMC8-16R-VR	1/2	12.7	1	10.41	1-3/8	34.92	7/8	22.22	22.86	46.99	57.15			
DMC10-6R-VR	5/8	15.87	3/8	9.65	15/16	23.81	1	25.4	24.38	34.03	44.19			
DMC10-8R-VR	5/8	15.87	1/2	11.93	15/16	23.81	1	25.4	24.38	38.86	49.02			
DMC10-12R-VR	5/8	15.87	3/4	12.7	1-1/16	26.98	1	25.4	24.38	40.38	50.54			
DMC12-8R-VR	3/4	19.05	1/2	11.93	1-1/16	26.98	1-1/8	28.58	24.38	40.38	50.54			
DMC12-12R-VR	3/4	19.05	3/4	15.74	1-1/16	26.98	1-1/8	28.58	24.38	40.38	50.54			
DMC12-16R-VR	3/4	19.05	1	15.74	1-3/8	34.92	1-1/8	28.58	24.38	46.99	57.15			
DMC16-12R-VR	1	25.4	3/4	15.74	1-3/8	34.92	1-1/2	38.1	31.24	45.21	57.4			
DMC16-16R-VR	1	25.4	1	22.35	1-3/8	34.92	1-1/2	38.1	31.24	50.03	62.23			

Male Connector

DMC-R-VR

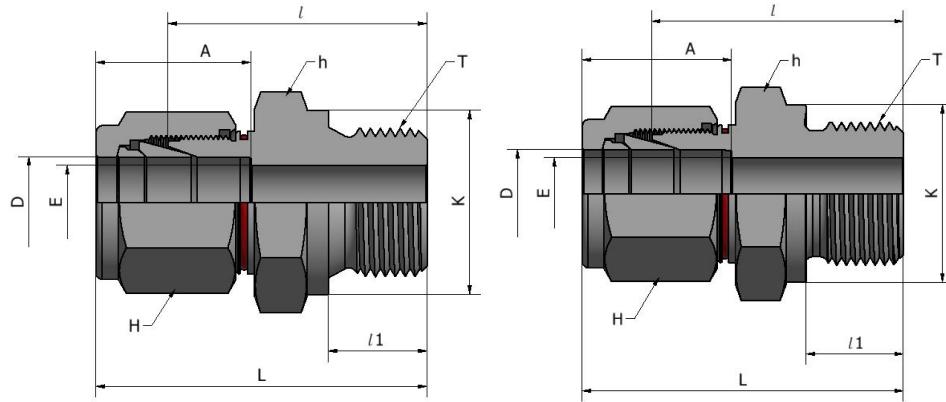
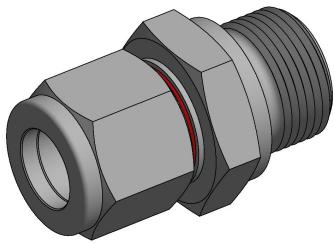


Metric

Part No.	Tube O.D. D	T PT	E Min.	Width across flat		A	l	L
				h	H			
DMC6M-2R-VR	6	1/8	4.8	14	16	15.3	25.4	32.8
DMC6M-4R-VR	6	1/4	4.8	14	16	15.3	30.2	37.6
DMC6M-6R-VR	6	3/8	4.8	18	16	15.3	31	38.4
DMC6M-8R-VR	6	1/2	4.8	22	16	15.3	37.3	44
DMC8M-2R-VR	8	1/8	4.8	16	17.46	16.2	26.7	34.2
DMC8M-4R-VR	8	1/4	6.4	16	17.46	16.2	31.2	38.7
DMC8M-6R-VR	8	3/8	6.4	18	17.46	16.2	31.8	39.2
DMC8M-8R-VR	8	1/2	6.4	22	17.46	16.2	37.3	44.8
DMC10M-2R-VR	10	1/8	4.8	18	20.64	17.2	28.7	36.3
DMC10M-4R-VR	10	1/4	7.1	18	20.64	17.2	33.3	40.9
DMC10M-6R-VR	10	3/8	7.9	18	20.64	17.2	33.3	40.9
DMC10M-8R-VR	10	1/2	7.9	22	20.64	17.2	38.1	45.7
DMC10M-12R-VR	10	3/4	7.9	27	20.64	17.2	38.9	46.5
DMC12M-4R-VR	12	1/4	7.1	22	22.22	22.8	33.3	43.4
DMC12M-6R-VR	12	3/8	9.5	22	22.22	22.8	33.3	43.4
DMC12M-8R-VR	12	1/2	9.5	22	22.22	22.8	38.1	48.2
DMC12M-12R-VR	12	3/4	9.5	27	22.22	22.8	38.9	49
DMC14M-6R-VR	14	3/8	9.5	24	25	24.4	34	44.1
DMC14M-8R-VR	14	1/2	11.1	24	25	24.4	34	44.1
DMC15M-6R-VR	15	3/8	9.5	24	25	24.4	34	44.1
DMC15M-8R-VR	15	1/2	11.9	24	25	24.4	38.9	49
DMC16M-4R-VR	16	1/4	7.1	24	25	24.4	34	44.1
DMC16M-6R-VR	16	3/8	9.5	24	25	24.4	34	44.1
DMC16M-8R-VR	16	1/2	11.9	24	25	24.4	38.9	49
DMC16M-12R-VR	16	3/4	12.7	27	25	24.4	38.9	49
DMC18M-8R-VR	18	1/2	11.9	27	30	24.4	40.4	50.5
DMC18M-12R-VR	18	3/4	15.1	27	30	24.4	40.4	50.5
DMC20M-8R-VR	20	1/2	11.9	30	32	26	42.2	52.3
DMC20M-12R-VR	20	3/4	15.9	30	32	26	42.2	52.3
DMC22M-8R-VR	22	1/2	11.9	30	32	26	42.2	52.3
DMC22M-12R-VR	22	3/4	15.9	30	32	26	42.2	52.3
DMC22M-16R-VR	22	1	18.3	35	32	26	47.8	57.9
DMC25M-8R-VR	25	1/2	11.9	35	38	31.3	45.2	57.5
DMC25M-12R-VR	25	3/4	15.9	35	38	31.3	45.2	57.5
DMC25M-16R-VR	25	1	21.8	35	38	31.3	50	62.3

Male Connector for
Bonded Gasket Seal(G), Metal Gasket(GB)

DMC-G, GB-VR



Fractional

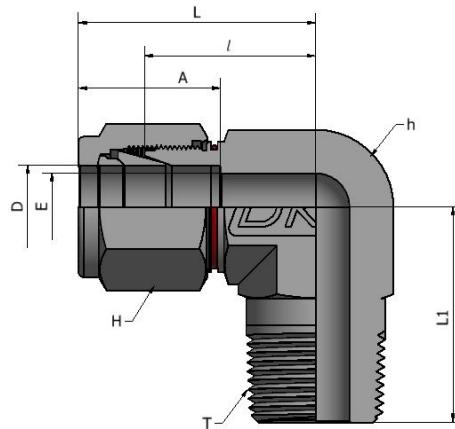
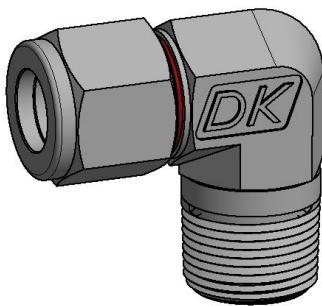
Part No.	Tube O.D		T PF	E Min.	Width across flat				A	l	l1	L	K
	In.	mm			h	mm	H	mm					
DMC4-2G-VR (-GB)	1/4	6.35	1/8	2.28	9/16	14.28	5/8	15.87	15.24	24.89	7.11	32.26	13.8
DMC4-4G-VR (-GB)	1/4	6.35	1/4	4.8	3/4	19.05	5/8	15.87	15.24	30.23	11.18	37.59	18
DMC4-6G-VR (-GB)	1/4	6.35	3/8	4.8	7/8	22.22	5/8	15.87	15.24	31.5	11.18	38.86	21.8
DMC4-8G-VR (-GB)	1/4	6.35	1/2	4.8	1-1/16	26.98	5/8	15.87	15.24	37.34	14.22	44.7	26
DMC6-2G-VR (-GB)	3/8	9.52	1/8	4.8	5/8	15.87	13/16	20.64	16.76	26.4	7.11	33.77	13.8
DMC6-4G-VR (-GB)	3/8	9.52	1/4	4.8	3/4	19.05	13/16	20.64	16.76	31.75	11.18	39.12	18
DMC6-6G-VR (-GB)	3/8	9.52	3/8	7.11	7/8	22.22	13/16	20.64	16.76	33.02	11.18	40.39	21.8
DMC6-8G-VR (-GB)	3/8	9.52	1/2	7.11	1-1/16	26.98	13/16	20.64	16.76	38.86	14.22	46.23	26
DMC8-4G-VR (-GB)	1/2	12.7	1/4	7.11	13/16	20.64	7/8	22.22	22.86	32.51	11.18	42.67	18
DMC8-6G-VR (-GB)	1/2	12.7	3/8	7.9	7/8	22.22	7/8	22.22	22.86	33.02	11.18	43.18	21.8
DMC8-8G-VR (-GB)	1/2	12.7	1/2	10.41	1-1/16	26.98	7/8	22.22	22.86	38.86	14.22	49.02	26
DMC12-8G-VR (-GB)	3/4	19.05	1/2	11.93	1-1/16	26.98	1-1/8	28.58	24.38	38.86	14.22	49.02	26
DMC12-12G-VR (-GB)	3/4	19.05	3/4	15.74	1-5/16	33.33	1-1/8	28.58	24.38	42.67	15.75	52.83	32
DMC16-8G-VR (-GB)	1	25.4	1/2	11.93	1-3/8	34.92	1-1/2	38.1	31.24	43.69	14.22	55.88	26
DMC16-12G-VR (-GB)	1	25.4	3/4	15.74	1-3/8	34.92	1-1/2	38.1	31.24	43.69	15.75	55.88	32
DMC16-16G-VR (-GB)	1	25.4	1	22.35	1-5/8	41.27	1-1/2	38.1	31.24	47.75	18.29	59.94	39

Metric

Part No.	Tube O.D	T PF	E Min.	Width across flat		A	l	l1	L	K
				h	H					
DMC6M-2G-VR (-GB)	6	1/8	4	14	14	15.3	24.9	7.1	32.3	13.8
DMC6M-4G-VR (-GB)	6	1/4	4.8	19	14	15.3	30.2	11.2	37.6	18
DMC6M-6G-VR (-GB)	6	3/8	4.8	22	14	15.3	31.5	11.2	38.9	21.8
DMC6M-8G-VR (-GB)	6	1/2	4.8	27	14	15.3	37.3	14.2	44.7	26
DMC8M-2G-VR (-GB)	8	1/8	4	15	16	16.2	25.7	7.1	33.2	13.8
DMC8M-4G-VR (-GB)	8	1/4	6.4	19	16	16.2	31	11.2	38.5	18
DMC8M-6G-VR (-GB)	8	3/8	6.4	22	16	16.2	32.3	11.2	39.8	21.8
DMC8M-8G-VR (-GB)	8	1/2	6.4	27	16	16.2	38.1	14.2	45.6	26
DMC10M-4G-VR (-GB)	10	1/4	5.9	19	19	17.2	31.8	11.2	39.4	18
DMC10M-6G-VR (-GB)	10	3/8	7.9	22	19	17.2	33	11.2	40.6	21.8
DMC10M-8G-VR (-GB)	10	1/2	7.9	27	19	17.2	38.9	14.2	46.5	26
DMC12M-4G-VR (-GB)	12	1/4	5.9	22	22	22.8	32.5	11.2	42.6	18
DMC12M-6G-VR (-GB)	12	3/8	7.9	22	22	22.8	33	11.2	43.1	21.8
DMC12M-8G-VR (-GB)	12	1/2	9.5	27	22	22.8	38.9	14.2	49	26
DMC12M-12G-VR (-GB)	12	3/4	9.5	35	22	22.8	42.7	15.7	52.8	32
DMC15M-8G-VR (-GB)	15	1/2	11.9	27	25	24.4	33.9	14.2	49	26
DMC16M-6G-VR (-GB)	16	3/8	7.9	24	25	24.4	33.8	11.2	43.9	21.8
DMC16M-8G-VR (-GB)	16	1/2	11.9	27	25	24.4	38.9	14.2	49	26
DMC18M-8G-VR (-GB)	18	1/2	11.9	27	30	24.4	38.9	14.2	49	26
DMC18M-12G-VR (-GB)	18	3/4	15.1	35	30	24.4	42.7	15.7	52.8	32
DMC20M-8G-VR (-GB)	20	1/2	11.9	30	32	26	40.4	14.2	50.5	26
DMC20M-12G-VR (-GB)	20	3/4	15.9	35	32	26	42.7	15.7	52.8	32
DMC22M-12G-VR (-GB)	22	3/4	15.9	35	32	26	42.7	15.7	52.8	32
DMC22M-16G-VR (-GB)	22	1	18.3	41	32	26	45.2	18.3	55.3	39
DMC25M-12G-VR (-GB)	25	3/4	15.9	35	38	31.3	45.2	15.7	57.5	32
DMC25M-16G-VR (-GB)	25	1	19.8	41	38	31.3	47.8	18.3	60.1	39

Male Elbow

DLM-N-VR

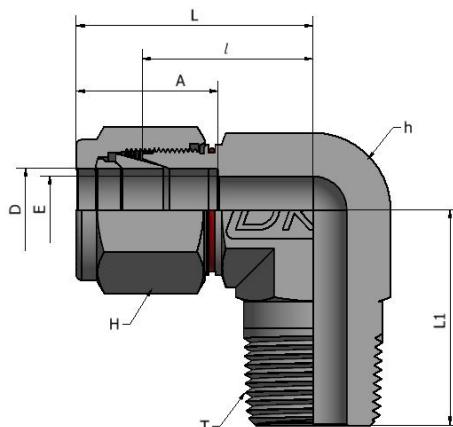
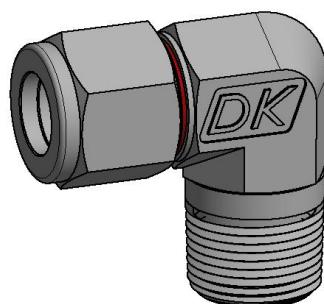


Fractional

Part No.	Tube O.D D		T NPT	E Min.	Width across flat				A	l	L	L1
	In.	mm			h	mm	H	mm				
					in.	mm	in.	mm				
DLM4-1N-VR	1/4	6.35	1/16	3.04	9/16	14.28	5/8	15.87	15.24	19.55	26.9	18.79
DLM4-2N-VR	1/4	6.35	1/8	4.82	9/16	14.28	5/8	15.87	15.24	19.55	26.47	18.79
DLM4-4N-VR	1/4	6.35	1/4	4.82	9/16	14.28	5/8	15.87	15.24	19.81	27.18	23.87
DLM4-6N-VR	1/4	6.35	3/8	4.82	11/16	17.46	5/8	15.87	15.24	22.35	29.71	26.2
DLM4-8N-VR	1/4	6.35	1/2	4.82	13/16	20.64	5/8	15.87	15.24	24.6	31.97	33.02
DLM5-2N-VR	5/16	7.93	1/8	4.82	5/8	15.87	11/16	17.46	16.25	21.33	28.7	19.81
DLM5-4N-VR	5/16	7.93	1/4	6.35	5/8	15.87	11/16	17.46	16.25	21.33	29.77	24.5
DLM5-6N-VR	5/16	7.93	3/8	6.35	11/16	17.46	11/16	17.46	16.25	23.11	30.48	26.2
DLM6-2N-VR	3/8	9.52	1/8	4.82	5/8	15.87	13/16	20.64	16.76	2311	30.48	20.6
DLM6-4N-VR	3/8	9.52	1/4	7.11	5/8	15.87	13/16	20.64	16.76	23.11	30.48	25.4
DLM6-6N-VR	3/8	9.52	3/8	7.11	11/16	17.46	13/16	20.64	16.76	23.87	31.24	26.2
DLM6-8N-VR	3/8	9.52	1/2	7.11	13/16	20.64	13/16	20.64	16.76	25.9	31.42	26.2
DLM6-12N-VR	3/8	9.52	3/4	7.11	1-1/16	26.98	13/16	20.64	16.76	29.71	37.08	36.83
DLM8-4N-VR	1/2	12.7	1/4	6.35	13/16	20.64	7/8	22.22	22.86	25.9	36.06	28.3
DLM8-6N-VR	1/2	12.7	3/8	9.65	13/16	20.64	7/8	22.22	22.86	25.9	36.06	28.3
DLM8-8N-VR	1/2	12.7	1/2	10.41	13/16	20.64	7/8	22.22	22.86	25.9	36.06	33.02
DLM8-12N-VR	1/2	12.7	3/4	10.41	1-1/16	26.98	7/8	22.22	22.86	29.71	39.87	36.83
DLM10-6N-VR	5/8	15.87	3/8	9.65	15/16	23.81	1	25.4	24.38	28	37.06	30.22
DLM10-8N-VR	5/8	15.87	1/2	11.93	15/16	23.81	1	25.4	24.38	28	37.06	35.1
DLM10-12N-VR	5/8	15.87	3/4	12.7	1-1/16	26.98	1	25.4	24.38	29.71	39.87	36.83
DLM12-8N-VR	3/4	19.05	1/2	11.93	1-1/16	26.98	1-1/8	28.58	24.38	29.71	39.87	37
DLM12-12N-VR	3/4	19.05	3/4	15.74	1-1/16	26.98	1-1/8	28.58	24.38	29.71	39.87	36.83
DLM14-12N-VR	7/8	22.22	3/4	15.74	1-3/8	34.92	1-1/4	31.75	25.9	34.54	44.7	41.65
DLM16-12N-VR	1	25.4	3/4	15.74	1-3/8	34.92	1-1/2	38.1	31.24	36.83	49.02	42.2
DLM16-16N-VR	1	25.4	1	22.35	1-3/8	34.92	1-1/2	38.1	31.24	36.83	49.02	46.7

Male Elbow

DLM-N-VR

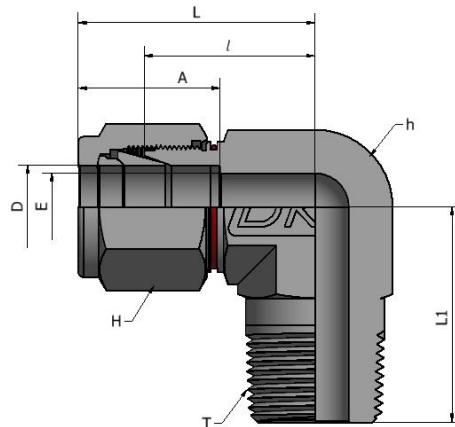
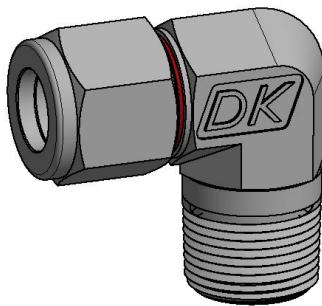


Metric

Part No.	Tube O.D D	T NPT	E Min.	Width across flat		A	l	L	L1
				h	H				
DLM6M-2N-VR	6M	1/8	4.8	14.28	16	15.3	19.6	27	18.8
DLM6M-4N-VR	6M	1/4	4.8	14.28	16	15.3	19.6	27	23.4
DLM6M-6N-VR	6M	3/8	4.8	17.5	16	15.3	22.4	29.8	26.2
DLM6M-8N-VR	6M	1/2	4.8	20.6	16	15.3	24.4	31.8	33
DLM8M-2N-VR	8M	1/8	4.8	15.87	17.46	16.2	21.3	28.8	19.8
DLM8M-4N-VR	8M	1/4	6.4	15.87	17.46	16.2	21.3	28.8	24.4
DLM8M-6N-VR	8M	3/8	6.4	17.5	17.46	16.2	23.1	30.6	26.2
DLM8M-8N-VR	8M	1/2	6.4	20.6	17.46	16.2	25.1	32.6	33
DLM10M-2N-VR	10M	1/8	4.8	17.5	20.64	17.2	23.9	31.5	23.6
DLM10M-4N-VR	10M	1/4	7.1	17.5	20.64	17.2	23.9	31.5	26.2
DLM10M-6N-VR	10M	3/8	7.9	17.5	20.64	17.2	23.9	31.5	26.2
DLM10M-8N-VR	10M	1/2	7.9	20.6	20.64	17.2	25.9	33.5	33
DLM12M-4N-VR	12M	1/4	7.1	20.6	22.22	22.8	25.9	36	28.2
DLM12M-6N-VR	12M	3/8	9.5	20.6	22.22	22.8	25.9	36	28.2
DLM12M-8N-VR	12M	1/2	9.5	20.6	22.22	22.8	25.9	36	33
DLM12M-12N-VR	12M	3/4	9.5	27	22.22	22.8	29.7	39.8	36.8
DLM15M-6N-VR	15M	3/8	9.5	23.81	25	24.4	27.9	38	30.2
DLM15M-8N-VR	15M	1/2	11.9	23.81	25	24.4	27.9	38	35.1
DLM16M-6N-VR	16M	3/8	9.5	25.4	25	24.4	27.9	38	30.2
DLM16M-8N-VR	16M	1/2	11.9	23.81	25	24.4	27.9	38	35.1
DLM16M-12N-VR	16M	3/4	12.7	23.81	25	24.4	29.7	39.8	36.8
DLM18M-8N-VR	18M	1/2	11.9	27	30	24.4	29.7	39.8	36.8
DLM18M-12N-VR	18M	3/4	15.1	27	30	24.4	29.7	39.8	36.8
DLM20M-8N-VR	20M	1/2	11.9	34.9	32	26	34.5	44.6	41.7
DLM20M-12N-VR	20M	3/4	15.9	34.9	32	26	34.5	44.6	41.7
DLM22M-8N-VR	22M	1/2	11.9	34.9	32	26	32.5	42.6	39.6
DLM22M-12N-VR	22M	3/4	15.9	34.9	32	26	34.5	44.6	41.7
DLM22M-16N-VR	22M	1	18.3	34.9	32	26	34.5	44.6	46.5
DLM25M-12N-VR	25M	3/4	15.9	34.9	38	31.3	36.8	49.1	41.7
DLM25M-16N-VR	25M	1	21.8	34.9	38	31.3	36.8	49.1	46.5

Male Elbow

DLM-R-VR

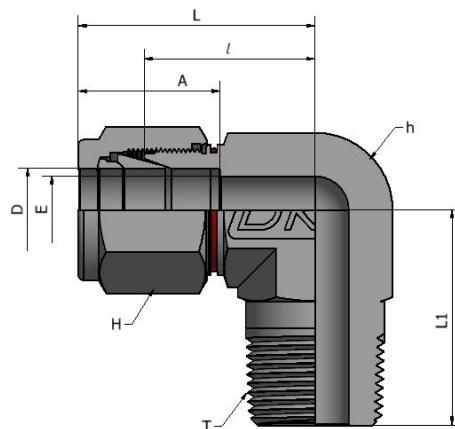
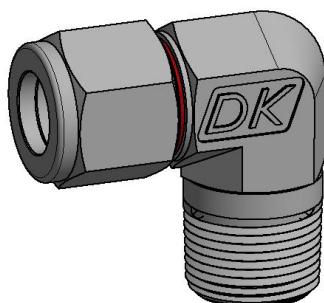


Fractional

Part No.	Tube O.D D		T PT	E Min.	Width across flat				A	l	L	L1
	In.	mm			h In.	h mm	H In.	H mm				
DLM4-2R-VR	1/4	6.35	1/8	4.82	9/16	14.28	5/8	15.87	15.24	19.55	26.47	18.79
DLM4-4R-VR	1/4	6.35	1/4	4.82	9/16	14.28	5/8	15.87	15.24	19.81	27.18	23.87
DLM4-6R-VR	1/4	6.35	3/8	4.82	9/16	14.28	5/8	15.87	15.24	22.35	29.71	26.2
DLM4-8R-VR	1/4	6.35	1/2	4.82	13/16	20.64	5/8	15.87	15.24	24.6	31.97	33.02
DLM5-4R-VR	5/16	7.93	1/4	6.35	5/8	15.87	11/16	17.46	16.25	21.33	29.77	24.5
DLM5-6R-VR	5/16	7.93	3/8	6.35	11/16	17.46	11/16	17.46	16.25	23.11	30.48	26.2
DLM6-2R-VR	3/8	9.52	1/8	4.82	5/8	15.87	13/16	20.64	16.76	23.11	30.48	20.6
DLM6-4R-VR	3/8	9.52	1/4	7.11	58	15.87	13/16	20.64	16.76	23.11	30.48	25.4
DLM6-6R-VR	3/8	9.52	3/8	7.11	11/16	17.46	13/16	20.64	16.76	23.87	31.24	26.2
DLM6-8R-VR	3/8	9.52	1/2	7.11	13/16	20.64	13/16	20.64	16.76	25.9	31.42	33.02
DLM6-12R-VR	3/8	9.52	3/4	7.11	1-1/16	26.98	13/16	20.64	16.76	29.71	37.08	36.83
DLM8-4R-VR	1/2	12.7	1/4	6.35	13/16	20.64	7/8	22.22	22.86	25.9	36.06	28.3
DLM8-6R-VR	1/2	12.7	3/8	9.65	13/16	20.64	7/8	22.22	22.86	25.9	36.06	28.3
DLM8-8R-VR	1/2	12.7	1/2	10.41	13/16	20.64	7/8	22.22	22.86	25.9	36.06	33.02
DLM8-12R-VR	1/2	12.7	3/4	10.41	1-1/16	26.98	7/8	22.22	22.86	29.71	39.87	36.83
DLM10-6R-VR	5/8	15.87	3/8	9.65	15/16	23.81	1	25.4	24.38	28	37.06	30.22
DLM10-8R-VR	5/8	15.87	1/2	11.93	15/16	23.81	1	25.4	24.38	28	37.06	35.1
DLM10-12R-VR	5/8	15.87	3/4	12.7	1-1/16	26.98	1	25.4	24.38	29.71	39.87	36.83
DLM12-8R-VR	3/4	19.05	1/2	11.93	1-1/16	26.98	1-1/8	28.58	24.38	29.71	39.87	37
DLM12-12R-VR	3/4	19.05	3/4	15.74	1-1/16	26.98	1-1/8	28.58	24.38	29.71	39.87	36.83
DLM16-12R-VR	1	25.4	3/4	15.74	1-3/8	34.92	1-1/2	38.1	31.24	36.83	49.02	42.2
DLM16-16R-VR	1	25.4	1	22.35	1-3/8	34.2	1-1/2	38.1	31.24	36.83	49.02	46.7

Male Elbow

DLM-R-VR

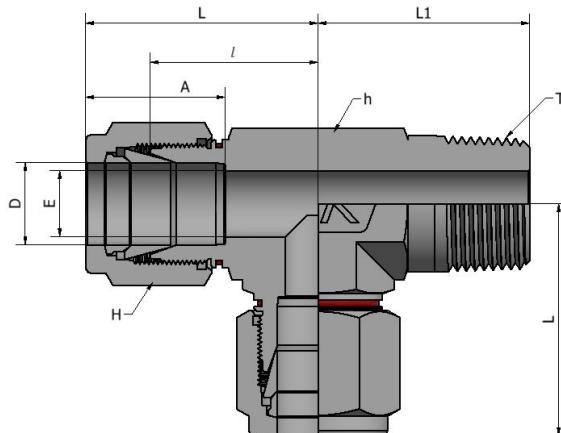
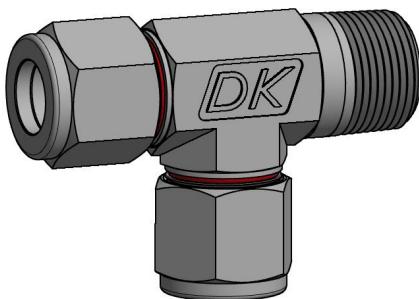


Metric

Part No.	Tube O.D D	T PT	E Min.	Width across flat		A	l	L	L1
				h	H				
DLM6M-2R-VR	6M	1/8	4.8	14.28	16	15.3	19.6	27	18.8
DLM6M-4R-VR	6M	1/4	4.8	14.28	16	15.3	19.6	27	23.4
DLM6M-6R-VR	6M	3/8	4.8	17.5	16	15.3	22.4	29.8	26.2
DLM6M-8R-VR	6M	1/2	4.8	20.6	16	15.3	24.4	31.8	33
DLM8M-2R-VR	8M	1/8	4.8	15.87	17.46	16.2	21.3	28.8	19.8
DLM8M-4R-VR	8M	1/4	6.4	15.87	17.46	16.2	21.3	28.8	24.4
DLM8M-6R-VR	8M	3/8	6.4	17.5	17.46	16.2	23.1	30.6	26.2
DLM8M-8R-VR	8M	1/2	6.4	20.6	17.46	16.2	25.1	32.6	33
DLM10M-2R-VR	10M	1/8	4.8	17.5	20.64	17.2	23.9	31.5	26.2
DLM10M-4R-VR	10M	1/4	7.1	17.5	20.64	17.2	23.9	31.5	26.2
DLM10M-6R-VR	10M	3/8	7.9	17.5	20.64	17.2	25.9	33.5	33
DLM10M-8R-VR	10M	1/2	7.9	20.6	20.64	17.2	25.9	36	23.6
DLM12M-2R-VR	12M	1/8	4.8	20.6	22.22	22.8	25.9	36	28.2
DLM12M-4R-VR	12M	1/4	7.1	20.6	22.22	22.8	25.9	36	28.2
DLM12M-6R-VR	12M	3/8	9.5	20.6	22.22	22.8	25.9	36	28.2
DLM12M-8R-VR	12M	1/2	9.5	20.6	22.22	22.8	25.9	36	33
DLM12M-12R-VR	12M	3/4	9.5	27	22.22	22.8	29.7	39.8	36.8
DLM14M-8R-VR	14M	1/2	11.1	23.81	25	24.4	27.9	38	30
DLM15M-6R-VR	15M	3/8	9.5	23.81	25	24.4	27.9	38	30
DLM15M-8R-VR	15M	1/2	11.9	23.81	25	24.4	27.9	38	35.1
DLM16M-6R-VR	16M	3/8	9.5	25.4	25	24.4	27.9	38	30.2
DLM16M-8R-VR	16M	1/2	11.9	23.81	25	24.4	27.9	38	35.1
DLM18M-8R-VR	18M	1/2	11.9	27	30	24.4	29.7	39.8	36.8
DLM18M-12R-VR	18M	3/4	15.1	27	30	24.4	29.7	39.8	36.8
DLM20M-8R-VR	20M	1/2	11.9	34.92	32	26	34.5	44.6	41.7
DLM20M-12R-VR	20M	3/4	15.9	34.92	32	26	34.5	44.6	41.7
DLM22M-8R-VR	22M	1/2	11.9	34.92	32	26	32.5	42.6	39.6
DLM22M-12R-VR	22M	3/4	15.9	34.92	32	26	34.5	44.6	41.7
DLM22M-16R-VR	22M	1	18.3	34.92	32	26	34.5	44.6	46.5
DLM25M-8R-VR	25M	1/2	11.9	34.92	38	31.3	36.8	49.1	41.7
DLM25M-12R-VR	25M	3/4	15.9	34.92	38	31.3	36.8	49.1	41.7
DLM25M-16R-VR	25M	1	21.8	34.92	38	31.3	36.8	49.1	46.5

Male Run Tee

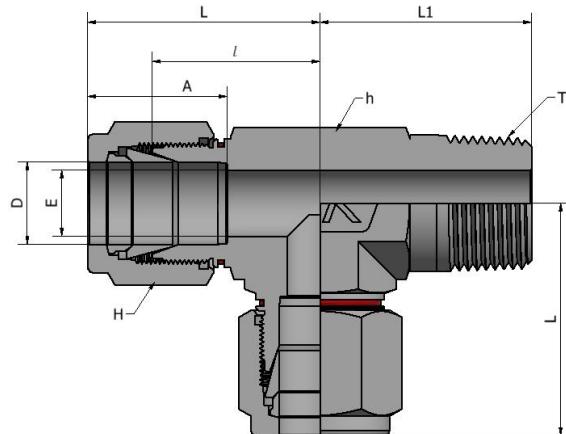
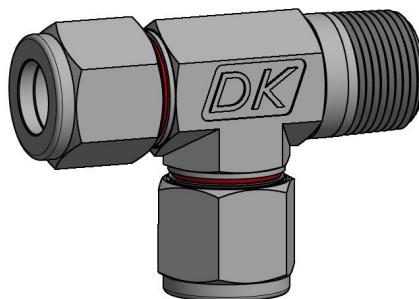
DTRM-N-VR



Fractional

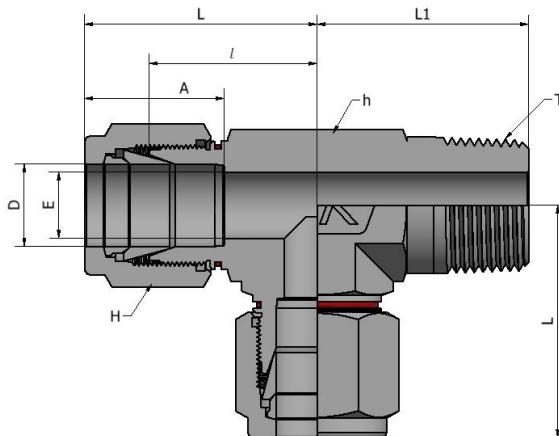
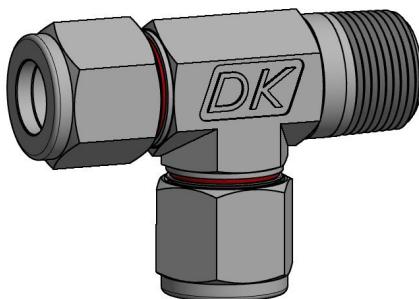
Part No.	Tube O.D D		T NPT	E Min.	Width across flat				A	l	L	L1
	In.	mm			h In.	mm	H In.	mm				
DTRM4-1N-VR	1/4	6.35	1/16	3.04	9/16	14.28	5/8	15.87	15.24	19.55	26.9	18.79
DTRM4-2N-VR	1/4	6.35	1/8	4.82	9/16	14.28	5/8	15.87	15.24	19.55	26.92	18.79
DTRM4-4N-VR	1/4	6.35	1/4	4.82	9/16	14.28	5/8	15.87	15.24	19.55	27.08	23.87
DTRM4-6N-VR	1/4	6.35	3/8	4.82	11/16	17.46	5/8	15.87	15.24	22.35	29.71	28.4
DTRM4-8N-VR	1/4	6.35	1/2	4.82	13/16	20.64	5/8	15.87	15.24	24.6	31.97	35.1
DTRM5-2N-VR	5/16	7.93	1/8	4.82	5/8	15.87	11/16	17.46	16.25	22.35	29.71	19.81
DTRM5-4N-VR	5/16	7.93	1/4	6.35	5/8	15.87	11/16	17.46	16.25	22.35	29.77	24.5
DTRM5-6N-VR	5/16	7.93	3/8	6.35	11/16	17.46	11/16	17.46	16.25	23.11	30.48	28.4
DTRM6-4N-VR	3/8	9.52	1/4	7.11	5/8	15.87	13/16	20.64	16.76	23.11	30.48	25.4
DTRM6-6N-VR	3/8	9.52	3/8	7.11	11/16	17.46	13/16	20.64	16.76	23.87	31.24	28.44
DTRM6-8N-VR	3/8	9.52	1/2	7.11	13/16	20.64	13/16	20.64	16.76	25.9	33.27	33.02
DTRM6-12N-VR	3/8	9.52	3/4	7.11	1-1/16	26.98	13/16	20.64	16.76	29.71	37.08	36.83
DTRM8-4N-VR	1/2	12.7	1/4	7.11	13/16	20.64	7/8	22.22	22.86	25.9	36.06	28.3
DTRM8-6N-VR	1/2	12.7	3/8	9.65	13/16	20.64	7/8	22.22	22.86	25.9	36.06	28.3
DTRM8-8N-VR	1/2	12.7	1/2	10.41	13/16	20.64	7/8	22.22	22.86	25.9	36.06	33.02
DTRM8-12N-VR	1/2	12.7	3/4	10.41	1-1/16	26.98	7/8	22.22	22.86	29.71	39.84	36.83
DTRM10-6N-VR	5/8	15.87	3/8	9.65	15/16	23.81	1	25.4	24.38	27.9	38.1	29.4
DTRM10-8N-VR	5/8	15.87	1/2	11.93	15/16	23.81	1	25.4	24.38	27.9	38.1	34
DTRM10-12N-VR	5/8	15.87	3/4	12.7	1-1/16	26.98	1	25.4	24.38	29.71	39.87	36.83
DTRM12-8N-VR	3/4	19.05	1/2	11.93	1-1/16	26.98	1-1/8	28.58	24.38	29.71	39.87	37
DTRM12-12N-VR	3/4	19.05	3/4	15.74	1-1/16	26.98	1-1/8	28.58	24.38	29.71	39.81	36.83
DTRM14-12N-VR	7/8	22.22	3/4	15.74	1-3/8	34.92	1-1/4	31.75	25.9	34.54	44.7	41.65
DTRM16-12N-VR	1	25.4	3/4	15.74	1-3/8	34.92	1-1/2	38.1	31.24	36.83	49.02	42.2
DTRM16-16N-VR	1	25.4	1	22.35	1-3/8	34.92	1-1/2	38.1	31.24	36.83	49.02	46.7

Male Run Tee

DTRM-N-VR**Metric**

Part No.	Tube O.D D	T PT	E Min.	Width across flat		A	l	L	L1
				h	H				
DTRM6M-2N-VR	6M	1/8	4.8	14.28	16	15.3	19.6	27	18.8
DTRM6M-4N-VR	6M	1/4	4.8	14.28	16	15.3	19.6	27	23.4
DTRM6M-6N-VR	6M	3/8	4.8	17.5	16	15.3	22.4	29.8	26.2
DTRM6M-8N-VR	6M	1/2	4.8	20.6	16	15.3	24.4	31.8	33
DTRM8M-2N-VR	8M	1/8	4.8	15.87	17.46	16.2	21.3	28.8	19.8
DTRM8M-4N-VR	8M	1/4	6.4	15.87	17.46	16.2	21.3	28.8	24.4
DTRM8M-6N-VR	8M	3/8	6.4	17.5	17.46	16.2	23.1	30.6	26.2
DTRM8M-8N-VR	8M	1/2	6.4	20.6	17.46	16.2	25.1	32.6	33
DTRM10M-2N-VR	10M	1/8	4.8	17.5	20.64	17.2	23.9	31.5	23.6
DTRM10M-4N-VR	10M	1/4	7.1	17.5	20.64	17.2	23.9	31.5	26.2
DTRM10M-6N-VR	10M	3/8	7.9	17.5	20.64	17.2	23.9	31.5	26.2
DTRM10M-8N-VR	10M	1/2	7.9	20.6	20.64	17.2	25.9	33.5	33
DTRM12M-2N-VR	12M	1/8	4.8	20.6	22.22	22.8	25.9	36	23.6
DTRM12M-4N-VR	12M	1/4	7.1	20.6	22.22	22.8	25.9	36	28.2
DTRM12M-6N-VR	12M	3/8	9.5	20.6	22.22	22.8	25.9	36	28.2
DTRM12M-8N-VR	12M	1/2	9.5	20.6	22.22	22.8	25.9	36	33
DTRM12M-12N-VR	12M	3/4	9.5	27	22.22	22.8	29.7	39.8	36.8
DTRM16M-6N-VR	16M	3/8	9.5	25.4	25	24.4	27.9	38	30.2
DTRM16M-8N-VR	16M	1/2	11.9	25.4	25	24.4	27.9	38	35.1
DTRM16M-12N-VR	16M	3/4	12.7	27	25	24.4	29.7	39.8	36.8
DTRM18M-8N-VR	18M	1/2	11.9	27	30	24.4	29.7	39.8	36.8
DTRM18M-12N-VR	18M	3/4	15.1	27	30	24.4	29.7	39.8	36.8
DTRM20M-8N-VR	20M	1/2	11.9	34.92	32	26	34.5	44.6	41.7
DTRM20M-12N-VR	20M	3/4	15.9	34.92	32	26	34.5	44.6	41.7
DTRM22M-12N-VR	22M	3/4	15.9	34.92	32	26	34.5	44.6	41.7
DTRM22M-16N-VR	22M	1	18.3	34.92	32	26	34.5	44.6	46.5
DTRM25M-12N-VR	25M	3/4	15.9	34.92	38	31.3	36.8	49.1	41.7
DTRM25M-16N-VR	25M	1	21.8	34.92	38	31.3	36.8	49.1	46.5

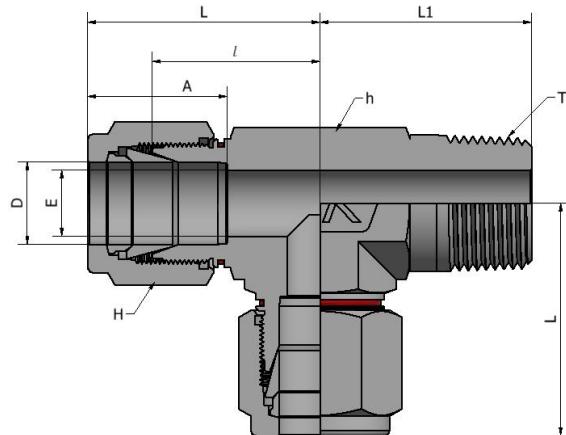
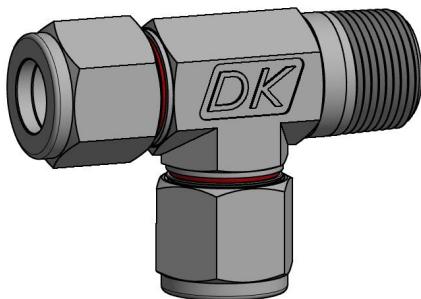
Male Run Tee

DTRM-R-VR**Fractional**

Part No.	Tube O.D D		T PT	E Min.	Width across flat				A	l	L	L1
	In.	mm			h In.	mm	H In.	mm				
DTRM4-1R-VR	1/4	6.35	1/16	3.04	9/16	14.28	5/8	15.87	15.24	19.55	26.9	18.79
DTRM4-2R-VR	1/4	6.35	1/8	4.82	9/16	14.28	5/8	15.87	15.24	19.55	26.92	18.78
DTRM4-4R-VR	1/4	6.35	1/4	4.82	9/16	14.28	5/8	15.87	15.24	19.55	27.08	23.87
DTRM4-6R-VR	1/4	6.35	3/8	4.82	11/16	17.46	5/8	15.87	15.24	22.35	29.71	28.4
DTRM4-8R-VR	1/4	6.35	1/2	4.82	13/16	20.64	5/8	15.87	15.24	24.6	31.97	35.1
DTRM5-2R-VR	5/16	7.93	1/8	4.82	5/8	15.87	11/16	17.46	16.25	22.35	29.71	19.81
DTRM5-4R-VR	5/16	7.93	1/4	6.35	5/8	15.87	11/16	17.46	16.25	22.35	29.77	24.5
DTRM5-6R-VR	5/16	7.93	3/8	6.35	11/16	17.46	11/16	17.46	16.25	23.11	30.48	28.4
DTRM6-4R-VR	3/8	9.52	1/4	7.11	5/8	15.87	13/16	20.64	16.76	23.11	30.48	25.4
DTRM6-6R-VR	3/8	9.52	3/8	7.11	11/16	17.46	13/16	20.64	16.76	23.87	31.24	28.44
DTRM6-8R-VR	3/8	9.52	1/2	7.11	13/16	20.64	13/16	20.64	16.76	25.9	33.27	33.02
DTRM6-12R-VR	3/8	9.52	3/4	7.11	1-1/16	26.98	13/16	20.64	16.76	29.71	37.08	36.83
DTRM8-4R-VR	1/2	12.7	1/4	7.11	13/16	20.64	7/8	22.22	22.86	25.9	36.06	28.3
DTRM8-6R-VR	1/2	12.7	3/8	9.65	13/16	20.64	7/8	22.22	22.86	25.9	36.06	28.3
DTRM8-8R-VR	1/2	12.7	1/2	10.41	13/16	20.64	7/8	22.22	22.86	25.9	36.06	33.02
DTRM8-12R-VR	1/2	12.7	3/4	10.41	1-1/16	26.98	7/8	22.22	22.86	29.71	39.84	36.83
DTRM10-6R-VR	5/8	15.87	3/8	9.65	15/16	23.81	1	25.4	24.38	27.9	38.1	29.4
DTRM10-8R-VR	5/8	15.87	1/2	11.93	15/16	23.81	1	25.4	24.38	27.9	38.1	34
DTRM10-12R-VR	5/8	15.87	3/4	12.7	1-1/16	26.98	1	25.4	24.38	29.71	39.87	36.83
DTRM12-8R-VR	3/4	19.05	1/2	11.93	1-1/16	26.98	1-1/8	28.58	24.38	29.71	39.87	37
DTRM12-12R-VR	3/4	19.05	3/4	15.74	1-1/16	26.98	1-1/8	28.58	24.38	29.71	39.81	36.83
DTRM14-12R-VR	7/8	22.22	3/4	15.74	1-3/8	34.92	1-1/4	31.75	25.9	34.54	44.7	41.65
DTRM16-12R-VR	1	25.4	3/4	15.74	1-3/8	34.92	1-1/2	38.1	31.24	36.83	49.02	42.2
DTRM16-16R-VR	1	25.4	1	22.35	1-3/8	34.92	1-1/2	38.1	31.24	36.83	49.02	46.7

Male Run Tee

DTRM-R-VR

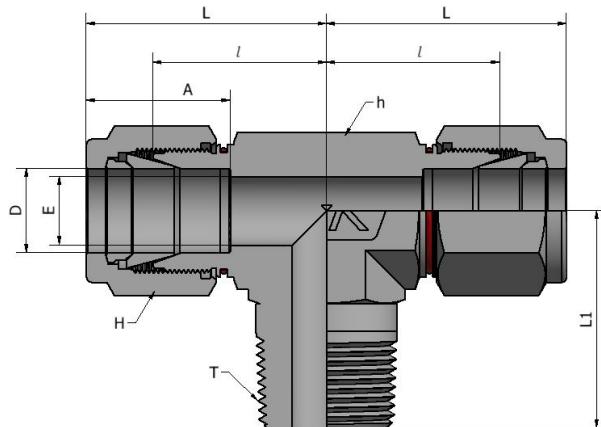
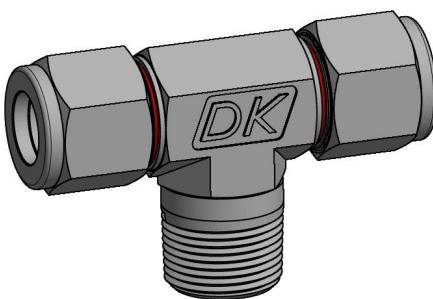


Metric

Part No.	Tube O.D D	T PT	E Min.	Width across flat		A	l	L	L1
				h	H				
DTRM6M-2R-VR	6M	1/8	4.8	14.28	16	15.3	19.6	27	18.8
DTRM6M-4R-VR	6M	1/4	4.8	14.28	16	15.3	19.6	27	23.4
DTRM6M-6R-VR	6M	3/8	4.8	17.5	16	15.3	22.4	29.8	26.2
DTRM6M-8R-VR	6M	1/2	4.8	20.6	16	15.3	24.4	31.8	33
DTRM8M-2R-VR	8M	1/8	4.8	15.87	17.46	16.2	21.3	28.8	19.8
DTRM8M-4R-VR	8M	1/4	6.4	15.87	17.46	16.2	21.3	28.8	24.4
DTRM8M-6R-VR	8M	3/8	6.4	17.5	17.46	16.2	23.1	30.6	26.2
DTRM8M-8R-VR	8M	1/2	6.4	20.6	17.46	16.2	25.1	32.6	33
DTRM10M-2R-VR	10M	1/8	4.8	17.5	20.64	17.2	23.9	31.5	23.6
DTRM10M-4R-VR	10M	1/4	7.1	17.5	20.64	17.2	23.9	31.5	26.2
DTRM10M-6R-VR	10M	3/8	7.9	17.5	20.64	17.2	23.9	31.5	26.2
DTRM10M-8R-VR	10M	1/2	7.9	20.6	20.64	17.2	25.9	33.5	33
DTRM12M-2R-VR	12M	1/8	4.8	20.6	22.22	22.8	25.9	36	23.6
DTRM12M-4R-VR	12M	1/4	7.1	20.6	22.22	22.8	25.9	36	28.2
DTRM12M-6R-VR	12M	3/8	9.5	20.6	22.22	22.8	25.9	36	28.2
DTRM12M-8R-VR	12M	1/2	9.5	20.6	22.22	22.8	25.9	36	33
DTRM12M-12R-VR	12M	3/4	9.5	27	22.22	22.8	29.7	39.8	36.8
DTRM16M-6R-VR	16M	3/8	9.5	25.4	25	24.4	27.9	38	30.2
DTRM16M-8R-VR	16M	1/2	11.9	25.4	25	24.4	27.9	38	35.1
DTRM16M-12R-VR	16M	3/4	12.7	27	25	24.4	29.7	39.8	36.8
DTRM18M-8R-VR	18M	1/2	11.9	27	30	24.4	29.7	39.8	36.8
DTRM18M-12R-VR	18M	3/4	15.1	27	30	24.4	29.7	39.8	36.8
DTRM20M-8R-VR	20M	1/2	11.9	34.92	32	26	34.5	44.6	41.7
DTRM20M-12R-VR	20M	3/4	15.9	34.92	32	26	34.5	44.6	41.7
DTRM22M-12R-VR	22M	3/4	15.9	34.92	32	26	34.5	44.6	41.7
DTRM22M-16R-VR	22M	1	18.3	34.92	32	26	34.5	44.6	46.5
DTRM25M-12R-VR	25M	3/4	15.9	34.92	38	31.3	36.8	49.1	41.7
DTRM25M-16R-VR	25M	1	21.8	34.92	38	31.3	36.8	49.1	46.5

Male Run Tee

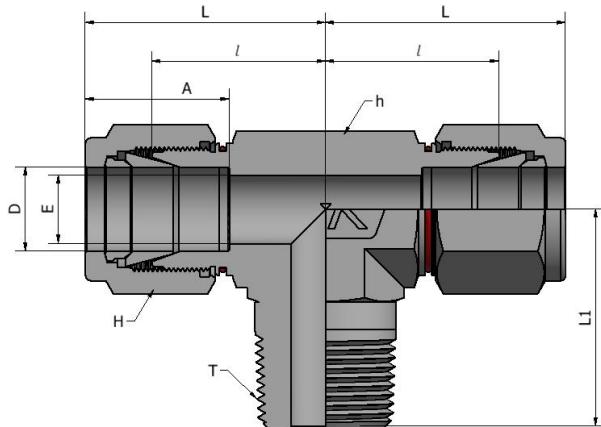
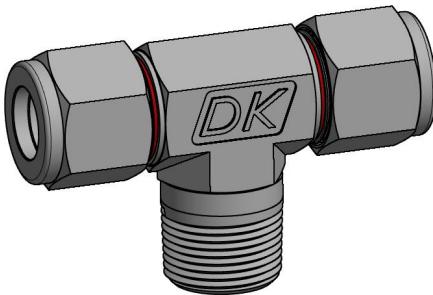
DTBM-N-VR



Fractional

Part No.	Tube O.D. D		T NPT	E Min.	Width across flat				A	l	L	L1
	In.	mm			h In.	mm	H In.	mm				
DTBM4-1N-VR	1/4	6.35	1/16	3.04	9/16	14.28	5/8	15.87	15.24	19.55	26.9	18.79
DTBM4-2N-VR	1/4	6.35	1/8	4.82	9/16	14.28	5/8	15.87	15.24	19.55	26.92	19.1
DTBM4-4N-VR	1/4	6.35	1/4	4.82	9/16	14.28	5/8	15.87	15.24	19.55	27.08	23.87
DTBM4-6N-VR	1/4	6.35	3/8	4.82	11/16	17.46	5/8	15.87	15.24	22.35	29.71	28.4
DTBM4-8N-VR	1/4	6.35	1/2	4.82	13/16	20.64	5/8	15.87	15.24	24.6	31.97	35.1
DTBM5-2N-VR	5/16	7.93	1/8	4.82	5/8	15.87	11/16	17.46	16.25	22.35	29.71	19.81
DTBM5-4N-VR	5/16	7.93	1/4	6.35	5/8	15.87	11/16	17.46	16.25	22.35	29.77	24.5
DTBM5-6N-VR	5/16	7.93	3/8	6.35	11/16	17.46	11/16	17.46	16.25	23.11	30.48	28.4
DTBM6-4N-VR	3/8	9.52	1/4	7.11	5/8	15.87	13/16	20.64	16.76	23.11	30.48	25.4
DTBM6-6N-VR	3/8	9.52	3/8	7.11	11/16	17.46	13/16	20.64	16.76	23.87	31.24	28.44
DTBM6-8N-VR	3/8	9.52	1/2	7.11	13/16	20.64	13/16	20.64	16.76	25.9	33.27	33.02
DTBM6-12N-VR	3/8	9.52	3/4	7.11	1-1/16	26.98	13/16	20.64	16.76	29.71	37.08	36.83
DTBM8-4N-VR	1/2	12.7	1/4	7.11	13/16	20.64	7/8	22.22	22.86	25.9	36.06	28.3
DTBM8-6N-VR	1/2	12.7	3/8	9.65	13/16	20.64	7/8	22.22	22.86	25.9	36.06	28.3
DTBM8-8N-VR	1/2	12.7	1/2	10.41	13/16	20.64	7/8	22.22	22.86	25.9	36.06	33.02
DTBM8-12N-VR	1/2	12.7	3/4	10.41	1-1/16	26.98	7/8	22.22	22.86	29.71	39.87	36.83
DTBM10-6N-VR	5/8	15.87	3/8	9.65	15/16	23.81	1	25.4	24.38	27.9	38.1	29.4
DTBM10-8N-VR	5/8	15.87	1/2	11.93	15/16	23.81	1	25.4	24.38	27.9	38.1	34
DTBM10-12N-VR	5/8	15.87	3/4	12.7	1-1/16	26.98	1	25.4	24.38	29.71	39.87	36.83
DTBM12-8N-VR	3/4	19.05	1/2	11.93	1-1/16	26.98	1-1/8	28.58	24.38	29.71	39.87	37
DTBM12-12N-VR	3/4	19.05	3/4	15.74	1-1/16	26.98	1-1/8	28.58	24.38	29.71	39.87	36.83
DTBM14-12N-VR	7/8	22.22	3/4	15.74	1-3/8	34.92	31.75	25.9	25.9	34.54	44.7	41.65
DTBM16-12N-VR	1	25.4	3/4	15.74	1-3/8	34.92	1-1/2	38.1	31.24	36.83	49.02	42.2
DTBM16-16N-VR	1	25.4	1	22.35	1-3/8	34.92	1-1/2	38.1	31.24	36.83	49.02	46.7

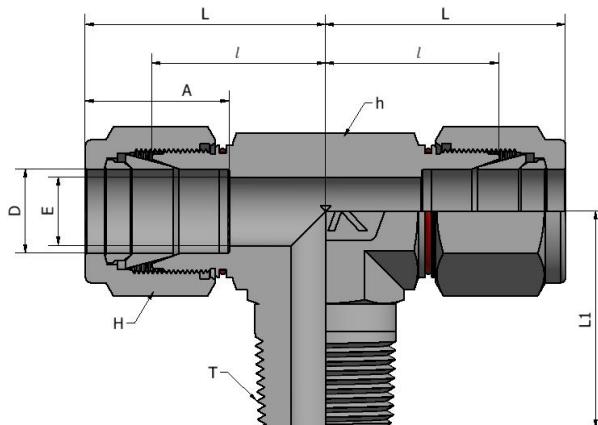
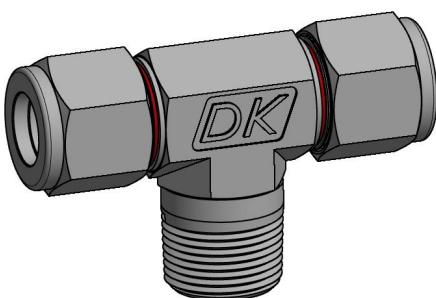
Male Run Tee

DTBM-N-VR**Metric**

Part No.	Tube O.D. D	T NPT	E Min.	Width across flat		A	l	L	L1
				h	H				
DTBM6M-2R-VR	6M	1/8	4.8	14.28	16	15.3	19.6	27	18.8
DTBM6M-4R-VR	6M	1/4	4.8	14.28	16	15.3	19.6	27	23.4
DTBM6M-6R-VR	6M	3/8	4.8	17.5	16	15.3	22.4	29.8	26.2
DTBM6M-8R-VR	6M	1/2	4.8	20.6	16	15.3	24.4	31.8	33
DTBM8M-2R-VR	8M	1/8	4.8	15.87	17.46	16.2	21.3	28.8	19.8
DTBM8M-4R-VR	8M	1/4	6.4	15.87	17.46	16.2	21.3	28.8	24.4
DTBM8M-6R-VR	8M	3/8	6.4	17.5	17.46	16.2	23.1	30.6	26.2
DTBM8M-8R-VR	8M	1/2	6.4	20.6	17.46	16.2	25.1	32.6	33
DTBM10M-2R-VR	10M	1/8	4.8	17.5	20.64	17.2	23.9	31.5	23.6
DTBM10M-4R-VR	10M	1/4	7.1	17.5	20.64	17.2	23.9	31.5	26.2
DTBM10M-6R-VR	10M	3/8	7.9	17.5	20.64	17.2	23.9	31.5	26.2
DTBM10M-8R-VR	10M	1/2	7.9	20.6	20.64	17.2	25.9	33.5	33
DTBM12M-2R-VR	12M	1/8	4.8	20.6	22.22	22.8	25.9	36	23.6
DTBM12M-4R-VR	12M	1/4	7.1	20.6	22.22	22.8	25.9	36	28.2
DTBM12M-6R-VR	12M	3/8	9.5	20.6	22.22	22.8	25.9	36	28.2
DTBM12M-8R-VR	12M	1/2	9.5	20.6	22.22	22.8	25.9	36	33
DTBM12M-12R-VR	12M	3/4	9.5	27	22.22	22.8	29.7	39.8	36.8
DTBM16M-6R-VR	16M	3/8	9.5	25.4	25	24.4	27.9	38	30.2
DTBM16M-8R-VR	16M	1/2	11.9	25.4	25	24.4	27.9	38	35.1
DTBM16M-12R-VR	16M	3/4	12.7	27	25	24.4	29.7	39.8	36.8
DTBM18M-8R-VR	18M	1/2	11.9	27	30	24.4	29.7	39.8	36.8
DTBM18M-12R-VR	18M	3/4	15.1	27	30	24.4	29.7	39.8	36.8
DTBM20M-8R-VR	20M	1/2	11.9	34.92	32	26	34.5	44.6	41.7
DTBM20M-12R-VR	20M	3/4	15.9	34.92	32	26	34.5	44.6	41.7
DTBM22M-12R-VR	22M	3/4	15.9	34.92	32	26	34.5	44.6	41.7
DTBM22M-16R-VR	22M	1	18.3	34.92	32	26	34.5	44.6	46.5
DTBM25M-12R-VR	25M	3/4	15.9	34.92	32	31.3	34.5	44.6	41.7
DTBM25M-16R-VR	25M	1	21.8	34.92	32	31.3	34.5	44.6	46.5

Male Run Tee

DTBM-R-VR

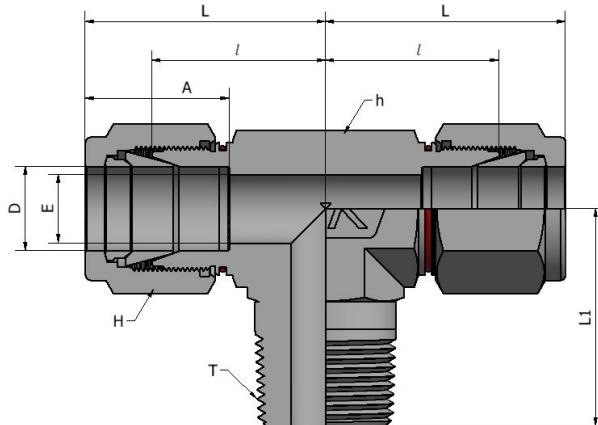
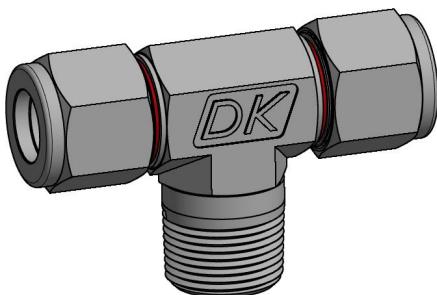


Fractional

Part No.	Tube O.D D		T PT	E Min.	Width across flat				A	l	L	L1
	In.	mm			h In.	mm	H In.	mm				
DTBM4-1N-VR	1/4	6.35	1/16	3.04	9/16	14.28	5/8	15.87	15.24	19.55	26.9	18.79
DTBM4-2N-VR	1/4	6.35	1/8	4.82	9/16	14.28	5/8	15.87	15.24	19.55	26.92	19.1
DTBM4-4N-VR	1/4	6.35	1/4	4.82	9/16	14.28	5/8	15.87	15.24	19.55	27.08	23.87
DTBM4-6N-VR	1/4	6.35	3/8	4.82	11/16	17.46	5/8	15.87	15.24	22.35	29.71	28.4
DTBM4-8N-VR	1/4	6.35	1/2	4.82	13/16	20.64	5/8	15.87	15.24	24.60	31.97	35.1
DTBM5-2N-VR	5/16	7.93	1/8	4.82	5/8	15.87	11/16	17.46	16.25	22.35	29.71	19.81
DTBM5-4N-VR	5/16	7.93	1/4	6.35	5/8	15.87	11/16	17.46	16.25	22.35	29.77	24.5
DTBM5-6N-VR	5/16	7.93	3/8	6.35	11/16	17.46	11/16	17.46	16.25	23.11	30.48	28.4
DTBM6-4N-VR	3/8	9.52	1/4	7.11	5/8	15.87	13/16	20.64	16.76	23.11	30.48	25.4
DTBM6-6N-VR	3/8	9.52	3/8	7.11	11/16	17.46	13/16	20.64	16.76	23.87	31.24	28.44
DTBM6-8N-VR	3/8	9.52	1/2	7.11	13/16	20.64	13/16	20.64	16.76	25.9	33.27	33.02
DTBM6-12N-VR	3/8	9.52	3/4	7.11	1-1/16	26.98	13/16	20.64	16.76	29.71	37.08	36.83
DTBM8-4N-VR	1/2	12.7	1/4	7.11	13/16	20.64	7/8	22.22	22.86	25.9	36.06	28.3
DTBM8-6N-VR	1/2	12.7	3/8	9.65	13/16	20.64	7/8	22.22	22.86	25.9	36.06	28.3
DTBM8-8N-VR	1/2	12.7	1/2	10.41	13/16	20.64	7/8	22.22	22.86	25.9	36.06	28.3
DTBM8-12N-VR	1/2	12.7	3/4	10.41	1-1/16	26.98	7/8	22.22	22.86	29.71	39.87	36.83
DTBM10-6N-VR	5/8	15.87	3/8	9.65	15/16	23.81	1	25.4	24.38	27.9	38.1	29.4
DTBM10-8N-VR	5/8	15.87	1/2	11.93	15/16	23.81	1	25.4	24.38	27.9	38.1	34
DTBM10-12N-VR	5/8	15.87	3/4	12.7	1-1/16	26.98	1	25.4	24.38	29.71	39.87	36.83
DTBM12-8N-VR	3/4	19.05	1/2	11.93	1-1/16	26.98	1-1/8	28.58	24.38	29.71	39.87	37
DTBM12-12N-VR	3/4	19.05	3/4	15.74	1-1/16	26.98	1-1/8	28.58	24.38	29.71	39.87	36.83
DTBM14-12N-VR	7/8	22.22	3/4	15.74	1-3/8	34.92	1-1/4	31.75	25.9	29.71	39.87	36.83
DTBM16-12N-VR	1	25.4	3/4	15.74	1-3/8	34.92	1-1/2	38.1	31.24	36.83	49.02	42.2
DTBM16-16N-VR	1	25.4	1	22.35	1-3/8	34.92	1-1/2	38.1	31.24	36.83	19.02	46.7

Male Run Tee

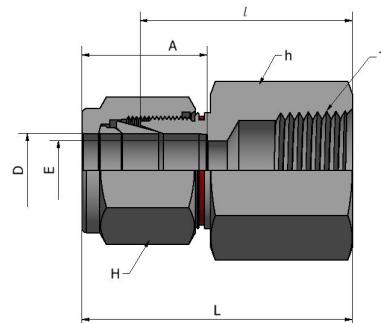
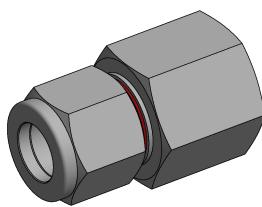
DTBM-R-VR



Metric

Part No.	Tube O.D. D	T PT	E Min.	Width across flat		A	l	L	L1
				h	H				
DTBM6M-2R-VR	6M	1/8	4.8	14.28	16	15.3	19.6	27	18.8
DTBM6M-4R-VR	6M	1/4	4.8	14.28	16	15.3	19.6	27	23.4
DTBM6M-6R-VR	6M	3/8	4.8	17.5	16	15.3	22.4	29.8	26.2
DTBM6M-8R-VR	6M	1/2	4.8	20.6	16	15.3	24.4	31.8	33
DTBM8M-2R-VR	8M	1/8	4.8	15.87	17.46	16.2	21.3	28.8	19.8
DTBM8M-4R-VR	8M	1/4	6.4	15.87	17.46	16.2	21.3	1707	24.4
DTBM8M-6R-VR	8M	3/8	6.4	17.5	17.46	16.2	23.1	30.6	26.2
DTBM8M-8R-VR	8M	1/2	6.4	20.6	17.46	16.2	25.1	32.6	33
DTBM10M-2R-VR	10M	1/8	4.8	17.5	20.64	17.2	23.9	31.5	23.6
DTBM10M-4R-VR	10M	1/4	7.1	17.5	20.64	17.2	23.9	31.5	26.2
DTBM10M-6R-VR	10M	3/8	7.9	17.5	20.64	17.2	23.9	315.	26.2
DTBM10M-8R-VR	10M	1/2	7.9	20.6	20.64	17.2	25.9	33.5	33
DTBM12M-2R-VR	12M	1/8	4.8	20.6	22.22	22.8	25.9	36	23.6
DTBM12M-4R-VR	12M	1/4	7.1	20.6	22.22	22.8	25.9	36	28.2
DTBM12M-6R-VR	12M	3/8	9.5	20.6	22.22	22.8	25.9	36	28.2
DTBM12M-8R-VR	12M	1/2	9.5	20.6	22.22	22.8	25.9	36	33
DTBM12M-12R-VR	12M	3/4	9.5	27	22.22	22.8	29.7	39.8	36.8
DTBM16M-6R-VR	16M	3/8	9.5	25.4	25	24.4	27.9	38	30.2
DTBM16M-8R-VR	16M	1/2	11.9	25.4	25	24.4	27.9	38	35.1
DTBM16M-12R-VR	16M	3/4	12.7	27	25	24.4	29.7	39.8	36.8
DTBM18M-8R-VR	18M	1/2	11.9	27	30	24.4	29.7	39.8	36.8
DTBM18M-12R-VR	18M	3/4	15.1	27	30	24.4	29.7	39.8	36.8
DTBM20M-8R-VR	20M	1/2	11.9	34.92	32	26	34.5	44.6	41.7
DTBM20M-12R-VR	20M	3/4	15.9	34.92	32	26	34.5	44.6	41.7
DTBM22M-12R-VR	22M	3/4	15.9	34.92	32	26	34.5	44.6	41.7
DTBM22M-16R-VR	22M	1	18.3	34.92	32	26	34.5	44.6	46.5
DTBM25M-12R-VR	25M	3/4	15.9	34.92	32	31.3	36.8	49.1	41.7
DTBM25M-16R-VR	25M	1	21.8	34.92	32	31.3	36.8	49.1	46.5

Female Connector

DCF-N-VR**Fractional**

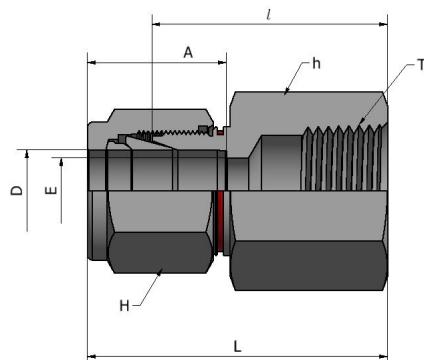
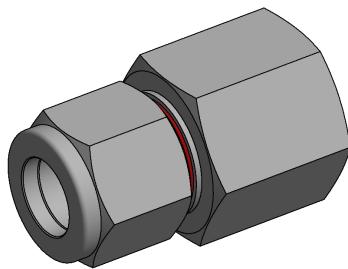
Part No.	Tube O.D. D		T NPT	E Min.	Width across flat				A	l	L
	In.	mm			h	H	In.	mm			
DCF4-2N-VR	1/4	6.35	1/8	4.82	9/16	14.28	5/8	15.87	15.24	23.87	31.24
DCF4-4N-VR	1/4	6.35	1/4	4.82	3/4	19.05	5/8	15.87	15.24	28.44	35.81
DCF4-6N-VR	1/4	6.35	3/8	4.82	7/8	22.22	5/8	15.87	15.24	30.22	37.59
DCF4-8N-VR	1/4	6.35	1/2	4.82	1-1/16	26.98	5/8	15.87	15.24	35.05	42.41
DCF5-2N-VR	5/16	7.93	1/8	6.35	5/8	15.87	11/16	17.46	16.25	24.63	32
DCF5-4N-VR	5/16	7.93	1/4	6.35	3/4	19.05	11/16	17.46	16.25	29.46	36.83
DCF6-2N-VR	3/8	9.52	1/8	7.11	5/8	15.87	13/16	20.64	16.76	25.4	32.76
DCF6-4N-VR	3/8	9.52	1/4	7.11	3/4	19.05	13/16	20.64	16.76	30.22	37.59
DCF6-6N-VR	3/8	9.52	3/8	7.11	7/8	22.22	13/16	20.64	16.76	31.75	39.11
DCF6-8N-VR	3/8	9.52	1/2	7.11	1-1/16	26.98	13/16	20.64	16.76	36.57	43.94
DCF6-12N-VR	3/8	9.52	3/4	7.11	1-5/16	33.33	13/16	20.64	16.76	40.38	47.75
DCF8-4N-VR	1/2	12.7	1/4	10.41	1-3/16	20.64	7/8	22.22	22.86	30.22	40.38
DCF8-6N-VR	1/2	12.7	3/8	10.41	47/8	22.22	7/8	22.22	22.86	31.75	41.91
DCF8-8N-VR	1/2	12.7	1/2	10.41	1-1/16	26.98	7/8	22.22	22.86	36.57	46.73
DCF8-12N-VR	1/2	12.7	3/4	10.41	1-5/16	33.33	7/8	22.22	22.86	38.1	48.26
DCF10-6N-VR	5/8	15.87	3/8	12.7	15/16	23.81	1	25.4	24.38	31.75	41.91
DCF10-8N-VR	5/8	15.87	1/2	12.7	1-1/16	26.98	1	25.4	24.38	36.57	46.73
DCF10-12N-VR	5/8	15.87	3/4	12.7	1-5/16	33.33	1	25.4	24.38	38.1	48.26
DCF12-8N-VR	3/4	19.05	1/2	15.74	1-1/16	26.98	1-1/8	28.58	24.38	36.57	46.73
DCF12-12N-VR	3/4	19.05	3/4	15.74	1-5/16	33.33	1-1/8	28.58	24.38	38.1	48.26
DCF14-12N-VR	7/8	22.22	3/4	18.28	1-5/16	33.33	1-1/4	31.75	25.9	39.62	49.78
DCF16-12N-VR	1	25.4	3/4	22.35	1-3/8	34.92	1-1/2	38.1	31.24	41.14	53.34
DCF16-16N-VR	1	25.4	1	22.35	1-5/8	41.27	1-1/2	38.1	31.24	50.03	62.23

Metric

Part No.	Tube O.D. D	T NPT	E Min.	Width across flat		A	l	L
				h	H			
DCF6M-2N-VR	6	1/8	4.8	14	16	15.3	23.9	31.3
DCF6M-4N-VR	6	1/4	4.8	19	16	15.3	28.4	35.8
DCF6M-6N-VR	6	3/8	4.8	22	16	15.3	29.5	36.9
DCF6M-8N-VR	6	1/2	4.8	27	16	15.3	35.1	42.5
DCF8M-2N-VR	8	1/8	4.8	16	17.46	16.2	24.6	32.1
DCF8M-4N-VR	8	1/4	6.4	19	17.46	16.2	29.5	37
DCF8M-6N-VR	8	3/8	6.4	22	17.46	16.2	30.2	37.7
DCF8M-8N-VR	8	1/2	6.4	27	17.46	16.2	35.8	43.3
DCF10M-2N-VR	10	1/8	4.8	18	20.64	17.2	25.4	33
DCF10M-4N-VR	10	1/4	7.1	19	20.64	17.2	30.2	37.8
DCF10M-6N-VR	10	3/8	7.9	22	20.64	17.2	31	38.6
DCF10M-8N-VR	10	1/2	7.9	27	20.64	17.2	36.6	44.2
DCF12M-2N-VR	12	1/8	4.8	22	22.22	22.8	28.4	38.5
DCF12M-4N-VR	12	1/4	7.1	22	22.22	22.8	30.2	40.3
DCF12M-6N-VR	12	3/8	9.5	22	22.22	22.8	31	41.1
DCF12M-8N-VR	12	1/2	9.5	27	22.22	22.8	36.6	46.7
DCF12M-12N-VR	12	3/4	9.5	35	22.22	22.8	38.9	49
DCF15M-8N-VR	15	1/2	11.9	27	25	24.4	36.6	46.7
DCF16M-8N-VR	16	1/2	11.9	27	25	24.4	36.8	46.9
DCF20M-8N-VR	20	1/2	11.9	30	32	26	37.8	47.9
DCF20M-12N-VR	20	3/4	15.9	35	32	26	39.6	49.7
DCF22M-12N-VR	22	3/4	15.9	35	32	26	39.6	49.7
DCF22M-16N-VR	22	1	18.3	41	32	26	47.8	57.9
DCF25M-12N-VR	25	3/4	15.9	35	38	31.3	41.1	53.4
DCF25M-16N-VR	25	1	21.8	41	38	31.3	50	62.3

Female Connector

DCF-R-VR



Fractional

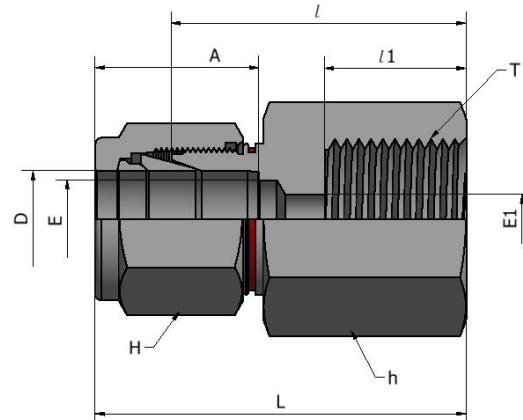
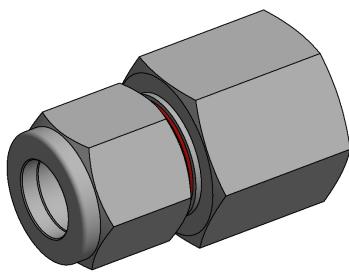
Part No.	Tube O.D D		T PT	E Min.	Width across flat				A	l	L
	In.	mm			h	H	In.	mm			
DCF4-2R-VR	1/4	6.35	1/8	4.82	9/16	14.28	5/8	15.87	15.24	23.87	31.24
DCF4-4R-VR	1/4	6.35	1/4	4.82	3/4	19.05	5/8	15.87	15.24	28.44	35.81
DCF4-6R-VR	1/4	6.35	3/8	4.82	7/8	22.22	5/8	15.87	15.24	30.22	37.59
DCF4-8R-VR	1/4	6.35	1/2	4.82	1-1/16	26.98	5/8	15.87	15.24	35.05	42.41
DCF6-4R-VR	3/8	9.52	1/4	7.11	3/4	19.05	13/16	20.64	16.76	30.22	37.59
DCF6-6R-VR	3/8	9.52	3/8	7.11	7/8	22.22	13/16	20.64	16.76	31.75	39.11
DCF6-8R-VR	3/8	9.52	1/2	7.11	1-1/16	26.98	13/16	20.64	16.76	36.57	43.94
DCF8-2R-VR	1/2	12.7	1/8	10.41	13/16	20.64	7/8	22.22	22.86	25.4	35.56
DCF8-4R-VR	1/2	12.7	1/4	10.41	1-3/16	20.64	7/8	22.22	22.86	30.22	40.38
DCF8-6R-VR	1/2	12.7	3/8	10.41	7/8	22.22	7/8	22.22	22.86	31.75	41.91
DCF8-8R-VR	1/2	12.7	1/2	10.41	1-1/16	26.98	7/8	22.22	22.86	36.57	46.73
DCF8-12R-VR	1/2	12.7	3/4	10.41	1-5/16	33.33	7/8	22.22	22.86	38.1	48.26
DCF10-6R-VR	5/8	15.87	3/8	12.7	15/16	23.81	1	25.4	24.38	31.75	41.91
DCF10-8R-VR	5/8	15.87	1/2	12.7	1-1/16	26.98	1	25.4	24.38	36.57	46.73
DCF10-12R-VR	5/8	15.87	3/4	12.7	1-5/16	33.33	1	25.4	24.38	38.1	48.26
DCF12-8R-VR	3/4	19.05	1/2	15.74	1-1/16	26.98	1-1/8	28.58	24.38	36.57	46.73
DCF12-12R-VR	3/4	19.05	3/4	15.74	1-5/16	33.33	1-1/8	28.58	24.38	38.1	48.26
DCF16-12R-VR	1	25.4	3/4	22.35	1-3/8	34.92	1-1/2	38.1	31.24	41.14	53.34
DCF16-16R-VR	1	25.4	1	22.35	1-5/8	41.27	1-1/2	38.1	31.24	50.03	62.23

Metric

Part No.	Tube O.D D	T PT	E Min.	Width across flat		A	l	L
				h	H			
DCF6M-2R-VR	6	1/8	4.8	14	16	15.3	23.9	31.3
DCF6M-4R-VR	6	1/4	4.8	19	16	15.3	28.4	35.8
DCF6M-6R-VR	6	3/8	4.8	22	16	15.3	29.5	36.9
DCF6M-8R-VR	6	1/2	4.8	27	16	15.3	35.1	42.5
DCF8M-2R-VR	8	1/8	4.8	16	17.46	16.2	24.6	32.1
DCF8M-4R-VR	8	1/4	6.4	19	17.46	16.2	29.5	37
DCF8M-6R-VR	8	3/8	6.4	22	17.46	16.2	30.2	37.7
DCF8M-8R-VR	8	1/2	6.4	27	17.46	16.2	35.8	43.3
DCF10M-2R-VR	10	1/8	4.8	18	20.64	17.2	25.4	33
DCF10M-4R-VR	10	1/4	7.1	19	20.64	17.2	30.2	37.8
DCF10M-6R-VR	10	3/8	7.9	22	20.64	17.2	31	38.6
DCF10M-8R-VR	10	1/2	7.9	27	20.64	17.2	36.6	44.2
DCF12M-2R-VR	12	1/8	4.8	22	22.22	22.8	28.4	38.5
DCF12M-4R-VR	12	1/4	7.1	22	22.22	22.8	30.2	40.3
DCF12M-6R-VR	12	3/8	9.5	22	22.22	22.8	31	41.1
DCF12M-8R-VR	12	1/2	9.5	27	22.22	22.8	36.6	46.7
DCF12M-12R-VR	12	3/4	9.5	35	22.22	22.8	38.9	49
DCF15M-8R-VR	15	1/2	11.9	27	25	24.4	36.6	46.7
DCF16M-8R-VR	16	1/2	11.9	27	25	24.4	36.8	46.9
DCF20M-8R-VR	20	1/2	11.9	30	32	26	37.8	47.9
DCF20M-12R-VR	20	3/4	15.9	35	32	26	39.6	49.7
DCF22M-12R-VR	22	3/4	15.9	35	32	26	39.6	49.7
DCF22M-16R-VR	22	1	18.3	41	32	26	47.8	57.9
DCF25M-12R-VR	25	3/4	15.9	35	38	31.3	41.1	53.4
DCF25M-16R-VR	25	1	21.8	41	38	31.3	50	62.3

Female Connector (Gauge Connector)

DCF-GG-VR



Fractional

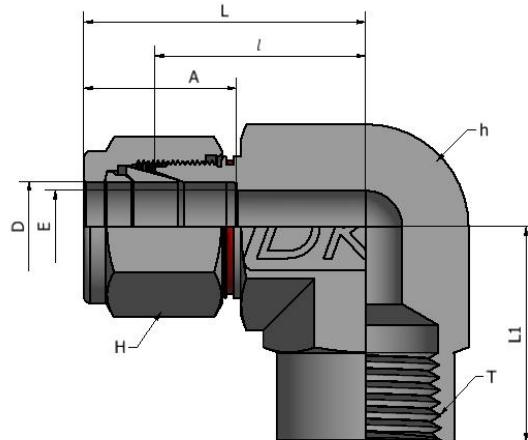
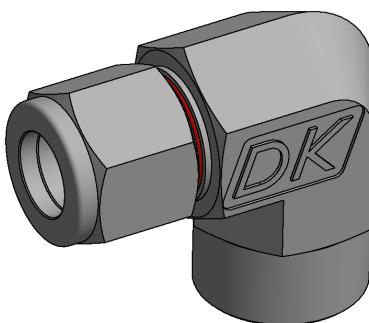
Part No.	Tube O.D D		T PF	E Min.	E1	Width across flat				A	l	l1	L
	In.	mm				h	mm	In.	mm				
DCF4-2GG-VR	1/4	6.35	1/8	4.82	-	9/16	14.28	5/8	15.87	15.24	26.3	12	33.55
DCF4-4GG-VR	1/4	6.35	1/4	4.82	5.5	3/4	19.05	5/8	15.87	15.24	30.22	13	37.59
DCF4-6GG-VR	1/4	6.35	3/8	4.82	6.5	15/16	23.81	5/8	15.87	15.24	30.22	14.22	37.59
DCF4-8GG-VR	1/4	6.35	1/2	4.82	7	1-1/16	26.98	5/8	15.87	15.24	30.07	18.8	43.43
DCF5-4GG-VR	5/16	7.93	1/4	5.58	5.5	3/4	19.05	11/16	17.46	16.25	30.98	13	38.35
DCF5-8GG-VR	5/16	7.93	1/2	7.11	7	1-1/16	26.98	11/16	17.46	16.25	33.02	18.8	40.38
DCF6-4GG-VR	3/8	9.52	1/4	5.58	5.5	3/4	19.05	13/16	20.64	16.76	31.75	13	39.12
DCF6-6GG-VR	3/8	9.52	3/8	6.6	6.5	15/16	23.81	13/16	20.64	16.76	31.24	14.22	38.61
DCF6-8GG-VR	3/8	9.52	1/2	7.11	7	1-1/16	26.98	13/16	20.64	16.76	34.54	18.8	41.91
DCF8-4GG-VR	1/2	12.7	1/4	5.5	5.5	7/8	22.22	7/8	22.22	22.86	31.8	13	41.95
DCF8-6GG-VR	1/2	12.7	3/8	6.6	6.5	15/16	23.81	7/8	22.22	22.86	34.29	14.22	44.45
DCF8-8GG-VR	1/2	12.7	1/2	7.11	7	1-1/16	26.98	7/8	22.22	22.86	38.1	18.8	48.26

Metric

Part No.	Tube O.D D	T PT	E Min.	E1	Width across flat		A	l	l1	L
					h	H				
DCF6M-4GG-VR	6	1/4	4.8	5.5	19	16	15.3	30.2	13	37.6
DCF6M-6GG-VR	6	3/8	4.8	6.5	24	16	15.3	30.2	14	37.6
DCF6M-8GG-VR	6	1/2	4.8	7	27	16	15.3	36.3	19	43
DCF8M-4GG-VR	8	1/4	5.5	5.5	19	17.46	16.2	31	13	38.5
DCF8M-6GG-VR	8	3/8	6.5	6.5	24	17.46	16.2	28.7	14	36.2
DCF8M-8GG-VR	8	1/2	7	7	27	17.46	16.2	33	19	40.5
DCF10M-4GG-VR	10	1/4	5.5	5.5	19	20.64	17.2	31.8	13	39.4
DCF10M-6GG-VR	10	3/8	6.5	6.5	24	20.64	17.2	31.2	14	38.8
DCF10M-8GG-VR	10	1/2	7	7	27	20.64	17.2	33.8	19	41.4
DCF12M-4GG-VR	12	1/4	5.5	5.5	22	22.22	22.8	31.8	13	41.9
DCF12M-6GG-VR	12	3/8	6.5	6.5	24	22.22	22.8	34.3	14	44.4
DCF12M-8GG-VR	12	1/2	7	7	27	22.22	22.8	38.1	19	48.2
DCF20M-8GG-VR	20	1/2	7	7	30	32	26	44.2	19	54.3
DCF22M-8GG-VR	22	1/2	7	7	30	32	26	44.2	19	54.3

Female Elbow

DLF-N-VR



Fractional

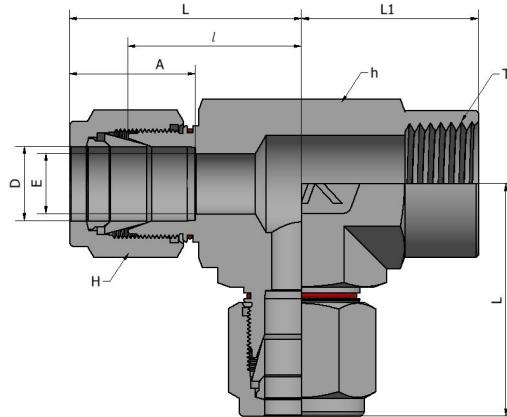
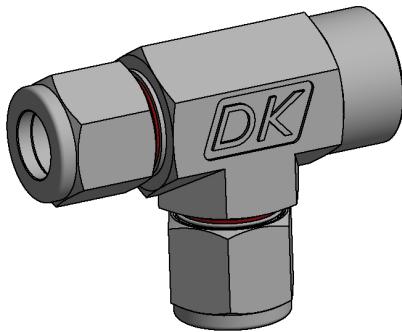
Part No.	Tube O.D D		T NPT	E Min.	Width across flat				A	l	L	L1
	In.	mm			h	mm	H	mm				
DLF4-2N-VR	1/4	6.35	1/8	4.82	9/16	14.28	5/8	15.87	15.24	19.55	26.92	19.05
DLF4-4N-VR	1/4	6.35	1/4	4.82	11/16	17.46	5/8	15.87	15.24	22.35	29.71	22.35
DLF4-6N-VR	1/4	6.35	3/8	4.82	13/16	20.64	5/8	15.87	15.24	24.38	31.75	22.35
DLF4-8N-VR	1/4	6.35	1/2	4.82	1	25.4	5/8	15.87	15.24	27.17	34.54	28.44
DLF5-2N-VR	5/16	7.93	1/8	6.35	5/8	15.87	11/16	17.46	16.25	21.33	28.7	19.05
DLF5-4N-VR	5/16	7.93	1/4	6.35	11/16	17.46	11/16	17.46	16.25	23.11	30.48	22.35
DLF6-2N-VR	3/8	9.52	1/8	7.11	5/8	15.87	13/16	20.64	16.76	23.11	30.48	19.05
DLF6-4N-VR	3/8	9.52	1/4	7.11	11/16	17.46	13/16	20.64	16.76	23.87	31.24	22.35
DLF6-6N-VR	3/8	9.52	3/8	7.11	13/16	20.64	13/16	20.64	16.76	25.9	33.27	22.35
DLF6-8N-VR	3/8	9.52	1/2	7.11	1	25.4	13/16	20.64	16.76	28.7	36.06	28.44
DLF8-4N-VR	1/2	12.7	1/4	10.41	13/16	20.64	7/8	22.22	22.86	25.9	36.06	22.35
DLF8-6N-VR	1/2	12.7	3/8	10.41	13/16	20.64	7/8	22.22	22.86	25.9	36.06	22.35
DLF8-8N-VR	1/2	12.7	1/2	10.41	1	25.4	7/8	22.22	22.86	28.7	38.86	28.44
DLF10-6N-VR	5/8	15.87	3/8	12.7	15/16	23.81	1	25.4	24.38	27.94	38.1	22.35
DLF10-8N-VR	5/8	15.87	1/2	12.7	1	25.4	1	25.4	24.38	29.71	39.87	28.44
DLF12-8N-VR	3/4	19.05	1/2	15.74	1-1/16	26.98	1-1/8	28.58	24.38	29.71	39.87	28.44
DLF12-12N-VR	3/4	19.05	3/4	15.74	1-3/8	34.92	1-1/8	28.58	24.38	34.54	44.7	31.75
DLF14-12N-VR	7/8	22.22	3/4	18.28	1-3/8	34.92	1-1/4	31.75	25.9	34.54	44.7	31.75
DLF16-12N-VR	1	25.4	3/4	22.35	1-3/8	34.92	1-1/2	38.1	31.24	36.83	49.02	31.75
DLF16-16N-VR	1	25.4	1	22.35	1-11/16	42.86	1-1/2	38.1	31.24	41.4	50.29	38.1

Metric

Part No.	Tube O.D D		T NPT	E Min.	Width across flat		A	l	L	L1
	In.	mm			h	mm				
DLF6M-2N-VR	6	15.87	1/8	4.8	14.28	16	15.3	19.6	27	19
DLF6M-4N-VR	6	15.87	1/4	4.8	017.46	16	15.3	22.4	29.8	22.4
DLF6M-6N-VR	6	15.87	3/8	4.8	20.64	16	15.3	24.4	31.7	22.4
DLF6M-8N-VR	6	15.87	1/2	4.8	25.4	16	15.3	27.2	34.6	28.4
DLF8M-2N-VR	8	20.64	1/8	6.4	15.87	17.46	16.2	23.1	29.9	19
DLF8M-4N-VR	8	20.64	1/4	6.4	17.46	17.46	16.2	23.1	30.6	22.4
DLF8M-8N-VR	8	20.64	1/2	6.4	25.4	17.46	16.2	28	35.2	28.4
DLF10M-2N-VR	10	25.4	1/8	7.9	17.46	20.64	17.2	23.9	31.5	19
DLF10M-4N-VR	10	25.4	1/4	7.9	17.46	20.64	17.2	25.9	33.5	22.35
DLF10M-6N-VR	10	25.4	3/8	7.9	20.64	20.64	17.2	25.9	33.5	22.4
DLF10M-8N-VR	10	25.4	1/2	7.9	25.4	20.64	17.2	28.7	36.1	28.4
DLF12M-4N-VR	12	30.23	1/4	9.5	20.64	22.22	22.8	25.9	36	22.4
DLF12M-6N-VR	12	30.23	3/8	9.5	20.64	22.22	22.8	25.9	36.2	22.35
DLF12M-8N-VR	12	30.23	1/2	9.5	25.4	22.22	22.8	28.7	38.8	28.4
DLF16M-8N-VR	16	38.1	1/2	12.7	26.98	25	24.4	29.7	39.5	28.4

Female Run Tee

DTRF-N-VR



Fractional

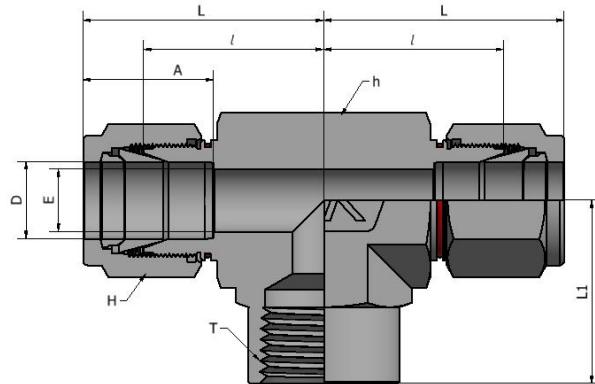
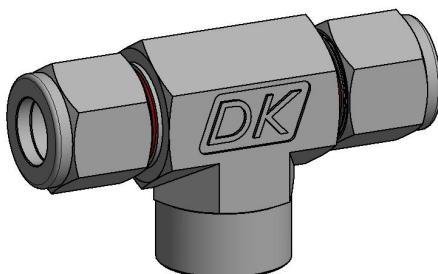
Part No.	Tube O.D D		T NPT	E Min.	Width across flat				A	l	L	L1
	In.	mm			h	mm	H	mm				
DTRF4-2N-VR	1/4	6.35	1/8	4.82	9/16	14.28	5/8	15.87	15.24	19.55	26.92	19.05
DTRF4-4N-VR	1/4	6.35	1/4	4.82	11/16	17.46	5/8	15.87	15.24	22.86	29.71	22.35
DTRF4-6N-VR	1/4	6.35	3/8	4.82	13/16	20.64	5/8	15.87	15.24	24.38	31.75	22.35
DTRF4-8N-VR	1/4	6.35	1/2	4.82	1	25.4	5/8	15.87	15.24	27.17	34.54	28.44
DTRF5-2N-VR	5/16	7.94	1/8	6.35	5/8	15.87	11/16	17.46	16.25	21.33	28.7	19.05
DTRF5-4N-VR	5/16	7.94	1/4	6.35	11/16	17.46	11/16	17.46	16.25	23.11	30.48	22.35
DTRF6-2N-VR	3/8	9.52	1/8	7.11	5/8	15.87	13/16	20.64	16.76	23.11	30.48	19.05
DTRF6-4N-VR	3/8	9.52	1/4	7.11	11/16	17.46	13/16	20.64	16.76	23.87	31.24	22.35
DTRF6-6N-VR	3/8	9.52	3/8	6.35	13/16	20.64	13/16	20.64	16.76	25.9	33.27	22.35
DTRF6-8N-VR	3/8	9.52	1/2	7.11	1	25.4	13/16	20.64	16.76	28.7	36.06	28.44
DTRF8-4N-VR	1/2	12.7	1/4	10.41	13/16	20.64	7/8	22.22	22.86	25.9	36.06	22.35
DTRF8-6N-VR	1/2	12.7	3/8	10.41	13/16	20.64	7/8	22.22	22.86	25.9	36.06	22.35
DTRF8-8N-VR	1/2	12.7	1/2	10.41	1	25.4	7/8	22.22	22.86	29.71	39.87	28.44
DTRF10-6N-VR	5/8	15.87	3/8	12.7	15/16	23.81	1	25.4	24.38	27.94	38.1	22.35
DTRF10-8N-VR	5/8	15.87	1/2	12.7	1	25.4	1	25.4	24.38	28.7	38.86	28.44
DTRF12-8N-VR	3/4	19.05	1/2	15.74	1-1/16	26.98	1-1/8	28/.58	33.27	29.71	39.87	28.44
DTRF12-12N-VR	3/4	19.05	3/4	15.74	1-3/8	34.92	1-1/8	28/.58	33.27	34.54	44.7	31.75
DTRF14-12N-VR	7/8	22.22	3/4	18.28	1-3/8	34.92	1-1/4	31.75	25.9	34.54	44.7	31.75
DTRF16-12N-VR	1	25.4	3/4	22.35	1-3/8	34.92	1-1/2	38.1	31.24	36.83	49.02	31.75
DTRF16-16N-VR	1	25.4	1	22.35	1-1/16	42.86	1-1/2	38.1	31.24	41.4	50.29	38.1

Metric

Part No.	Tube O.D D	T NPT	E Min.	Width across flat		A	l	L	L1
				h	H				
DTRF6M-2N-VR	6	1/8	4.8	14.28	16	15.3	19.6	27	19
DTRF6M-4N-VR	6	1/4	4.8	17.46	16	15.3	22.4	29.8	24
DTRF6M-6N-VR	6	3/8	4.8	20.64	16	15.3	24.4	31.7	22.4
DTRF6M-8N-VR	6	1/2	4.8	25.4	16	15.3	27.2	34.5	28.4
DTRF8M-2N-VR	8	1/8	6.4	15.87	17.46	16.2	23.1	29.9	19
DTRF8M-4N-VR	8	1/4	6.4	17.46	17.46	16.2	23.1	30.6	22.4
DTRF8M-6N-VR	8	3/8	6.4	20.64	17.46	16.2	25.2	32.4	22.4
DTRF8M-8N-VR	8	1/2	6.4	25.4	17.46	16.2	28	35.2	28.4
DTRF10M-2N-VR	10	1/8	7.9	20.64	20.64	17.2	23.9	31.5	19
DTRF10M-4N-VR	10	1/4	7.9	20.64	20.64	17.2	25.9	33.6	22.4
DTRF10M-6N-VR	10	3/8	7.9	20.64	20.64	17.2	25.9	33.6	22.4
DTRF10M-8N-VR	10	1/2	7.9	25.4	20.64	17.2	26.2	33.6	28.4
DTRF12M-4N-VR	12	1/4	9.5	20.64	22.22	22.8	25.9	36	22.4
DTRF12M-6N-VR	12	3/8	9.5	20.64	22.22	22.8	25.9	36	22.4
DTRF12M-8N-VR	12	1/2	9.5	25.4	22.22	22.8	29.7	40	28.4
DTRF16M-8N-VR	16	1/2	12.7	25.4	25	24.4	29.7	40	28.4

Female Branch Tee

DTBF-N-VR



Fractional

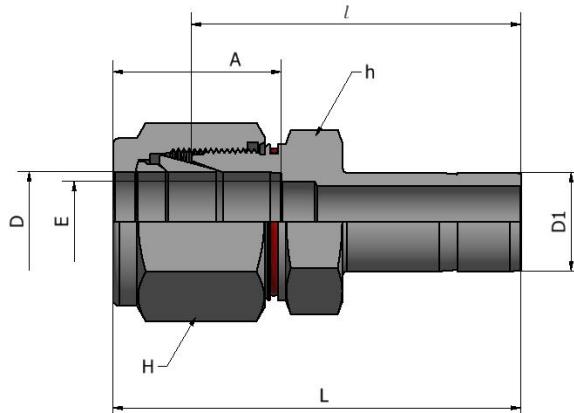
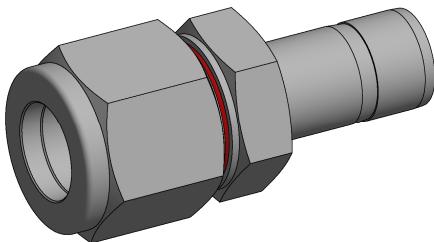
Part No.	Tube O.D D		T NPT	E Min.	Width across flat				A	l	L	L1				
	In.	mm			h		H									
	In.	mm			In.	mm	In.	mm								
DTBF4-2N-VR	1/4	6.35	1/8	4.82	9/16	14.28	5/8	15.87	15.24	19.55	26.92	19.05				
DTBF4-4N-VR	1/4	6.35	1/4	4.82	11/16	17.46	5/8	15.87	15.24	22.35	29.71	22.35				
DTBF4-6N-VR	1/4	6.35	3/8	4.82	13/16	20.64	5/8	15.87	15.24	24.38	31.75	22.35				
DTBF4-8N-VR	1/4	6.35	1/2	4.82	1	25.4	5/8	15.87	15.24	27.17	34.54	28.44				
DTBF5-2N-VR	5/16	7.94	1/8	6.35	5/8	15.87	11/16	17.46	16.25	21.33	28.7	19.05				
DTBF5-4N-VR	5/16	7.94	1/4	6.35	11/16	17.46	11/16	17.46	16.25	23.11	30.48	22.35				
DTBF6-2N-VR	3/8	9.52	1/8	7.11	11/16	17.46	13/16	20.64	16.76	23.11	30.48	19.05				
DTBF6-4N-VR	3/8	9.52	1/4	7.11	11/16	17.46	13/16	20.64	16.76	23.87	31.24	22.35				
DTBF6-6N-VR	3/8	9.52	3/8	6.35	13/16	20.64	13/16	20.64	16.76	25.9	33.27	22.35				
DTBF6-8N-VR	3/8	9.52	1/2	7.11	1	25.4	13/16	20.64	16.76	28.7	36.06	28.44				
DTBF8-4N-VR	1/2	12.7	1/4	10.41	13/16	20.64	7/8	22.22	22.86	25.9	36.06	22.35				
DTBF8-6N-VR	1/2	12.7	3/8	10.41	13/16	20.64	7/8	22.22	22.86	25.9	36.06	22.35				
DTBF8-8N-VR	1/2	12.7	1/2	10.41	1	25.4	7/8	22.22	22.86	29.71	39.87	28.44				
DTBF10-6N-VR	5/8	15.87	3/8	12.7	15/16	23.81	1	25.4	24.38	27.94	38.1	22.35				
DTBF10-8N-VR	5/8	15.87	1/2	12.7	1	25.4	1	25.4	24.38	28.7	38.86	28.44				
DTBF12-8N-VR	3/4	19.05	1/2	15.74	1-1/16	26.98	1-1/8	28/58	33.27	29.71	39.87	28.44				
DTBF12-12N-VR	3/4	19.05	3/4	15.74	1-3/8	34.92	1-1/8	28/58	33.27	34.54	44.7	31.75				
DTBF14-12N-VR	7/8	22.22	3/4	18.28	1-3/8	34.92	1-1/4	31.75	25.9	24.54	44.7	31.75				
DTBF16-12N-VR	1	25.4	3/4	22.35	1-3/8	34.92	1-1/2	38.1	31.24	36.83	49.02	31.75				
DTBF16-16N-VR	1	25.4	1	22.35	1-11/16	42.86	1-1/2	38.1	31.24	41.4	53.59	38.1				

Metric

Part No.	Tube O.D D	T NPT	E Min.	Width across flat		A	l	L	L1
				h	H				
DTBF6M-2N-VR	6	1/8	4.8	14.28	16	15.3	19.6	27	19
DTBF6M-4N-VR	6	1/4	4.8	14.28	16	15.3	22.4	29.8	22.4
DTBF6M-6N-VR	6	3/8	4.8	20.64	16	15.3	24.4	31.7	22.4
DTBF6M-8N-VR	6	1/2	4.8	25.4	16	15.3	27.2	34.5	28.4
DTBF8M-2N-VR	8	1/8	6.4	15.87	17.46	16.2	23.1	29.9	19
DTBF8M-4N-VR	8	1/4	6.4	17.46	17.46	16.2	23.1	30.6	22.4
DTBF8M-6N-VR	8	3/8	6.4	20.64	17.46	16.2	25.2	32.4	22.4
DTBF8M-8N-VR	8	1/2	6.4	25.4	17.46	16.2	28	35.2	28.4
DTBF10M-2N-VR	10	1/8	7.9	17.46	20.64	17.2	23.9	31.5	19
DTBF10M-4N-VR	10	1/4	7.9	20.64	20.64	17.2	25.9	33.5	22.4
DTBF10M-6N-VR	10	3/8	7.9	20.64	20.64	17.2	25.9	33.5	22.4
DTBF10M-8N-VR	10	1/2	7.9	25.4	20.64	17.2	26.2	33.6	22.4
DTBF12M-4N-VR	12	1/4	9.5	20.64	22.22	22.8	25.9	36	22.4
DTBF12M-6N-VR	12	3/8	9.5	20.64	22.22	22.8	25.9	36	22.4
DTBF12M-8N-VR	12	1/2	9.5	25.4	22.22	22.8	29.7	40	28.7
DTBF16M-8N-VR	16	1/2	12.7	25.4	25	24.4	29.7	40	28.7

Reducer

DR-VR



Fractional

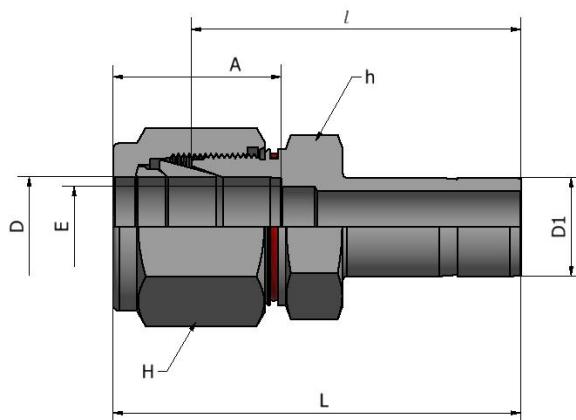
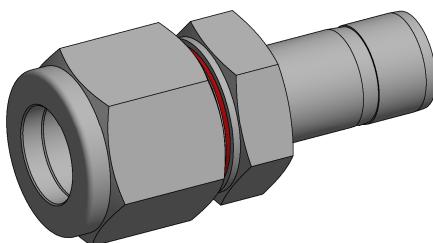
Part No.	Tube O.D				E Min.	Width across flat				A		L				
	D		D1			h		H								
	In.	mm	In.	mm		In.	mm	In.	mm							
DR4-2-VR	1/4	6.35	1/8	3.17	2.03	9/16	14.28	5/8	15.87	15.24	29.46	36.83				
DR4-3-VR	1/4	6.35	3/16	4.76	3.04	9/16	14.28	5/8	15.87	15.24	30.22	37.59				
DR4-4-VR	1/4	6.35	1/4	6.35	4.82	9/16	14.28	5/8	15.87	15.24	31.75	39.11				
DR4-5-VR	1/4	6.35	5/16	7.93	4.82	9/16	14.28	5/8	15.87	15.24	32.51	39.87				
DR4-6-VR	1/4	6.35	3/8	9.52	4.82	9/16	14.28	5/8	15.87	15.24	33.27	40.64				
DR4-8-VR	1/4	6.35	1/2	12.7	4.82	9/16	14.28	5/8	15.87	15.24	38.86	46.22				
DR4-10-VR	1/4	6.35	5/8	15.87	4.82	11/16	17.46	5/8	15.87	15.24	40.64	48				
DR4-12-VR	1/4	6.35	3/4	19.05	4.82	13/16	20.64	5/8	15.87	15.24	40.38	47.75				
DR5-6-VR	5/16	7.93	3/8	9.52	6.35	5/8	15.87	11/16	17.46	16.25	34.54	41.91				
DR5-8-VR	5/16	7.93	1/2	12.7	6.35	5/8	15.87	11/16	17.46	16.25	40.13	47.49				
DR6-4-VR	3/8	9.52	1/4	6.35	4.82	11/16	17.46	13/16	20.64	16.76	34.03	41.4				
DR6-6-VR	3/8	9.52	3/8	9.52	7.11	11/16	17.46	13/16	20.64	16.76	35.81	43.18				
DR6-8-VR	3/8	9.52	1/2	12.7	7.11	11/16	17.46	13/16	20.64	16.76	41.14	45.81				
DR6-10-VR	3/8	9.52	5/8	15.87	7.11	11/16	17.46	13/16	20.64	16.76	42.92	50.29				
DR6-12-VR	3/8	9.52	3/4	19.05	7.11	13/16	20.64	13/16	20.64	16.76	42.92	50.29				
DR8-4-VR	1/2	12.7	1/4	6.35	4.82	13/16	20.64	7/8	22.22	22.86	34.79	44.95				
DR8-6-VR	1/2	12.7	3/8	9.52	7.11	13/16	20.64	7/8	22.22	22.86	36.57	46.73				
DR8-8-VR	1/2	12.7	1/2	12.7	9.9	13/16	20.64	7/8	22.22	22.86	42.16	52.32				
DR8-10-VR	1/2	12.7	5/8	15.87	10.41	13/16	20.64	7/8	22.22	22.86	43.68	53.84				
DR8-12-VR	1/2	12.7	3/4	19.05	10.41	13/16	20.64	7/8	22.22	22.86	43.84	53.84				
DR8-16-VR	1/2	12.7	1	25.4	10.41	1-1/16	26.98	7/8	22.22	22.86	50.03	60.19				
DR10-12-VR	5/8	15.87	3/4	19.05	12.7	15/16	23.81	1	25.4	24.38	44.45	54.61				
DR10-14-VR	5/8	15.87	7/8	22.22	12.7	15/16	23.81	1	25.4	24.38	45.97	56.13				
DR10-16-VR	5/8	15.87	1	25.4	12.7	1-1/16	26.98	1	25.4	24.38	50.8	60.96				
DR12-8-VR	3/4	19.05	1/2	12.7	9.9	1-1/16	26.98	1-1/8	28.58	24.38	44.45	54.61				
DR12-16-VR	3/4	19.05	1	25.4	15.74	1-1/16	26.98	1-1/8	28.58	24.38	52.32	62.48				

Metric Tube Metric DK-Lok Port

Part No.	Tube O.D				E Min.	Width across flat		A	l	L				
	D	D1				h	H							
		In.	mm	In.										
DR6M-2-VR	6	1/8	3.17	2	14	16	15.3	29.5	36.9					
DR6M-4-VR	6	1/4	6.35	4.8	14	16	15.3	31.8	39.2					
DR6M-5-VR	6	5/16	7.93	4.8	14	16	15.3	32.5	39.9					
DR6M-6-VR	6	3/8	9.52	4.8	14	16	15.3	33.3	40.7					
DR6M-8-VR	6	1/2	12.7	4.8	14	16	15.3	38.9	46.3					
DR8M-6-VR	8	3/8	9.52	6.4	16	17.46	16.2	34.5	42					
DR8M-8-VR	8	1/2	12.7	6.4	16	17.46	16.2	40.1	47.6					
DR10M-6-VR	10	3/8	9.52	7.1	18	20.64	17.2	36.6	44.2					
DR10M-8-VR	10	1/2	12.7	7.9	18	20.64	17.2	42.2	49.8					
DR12M-8-VR	12	1/2	12.7	9.5	22	22.22	22.8	42.2	52.3					
DR12M-12-VR	12	3/4	19.05	9.5	22	22.22	22.8	43.7	53.8					
DR18M-12-VR	18	3/4	19.05	15.1	27	30	24.4	46	56.1					
DR18M-16-VR	18	1	25.4	15.1	27	30	24.4	52.3	62.4					
DR25M-16-VR	25	1	25.4	20.2	35	38	31.3	57.2	69.5					

Reducer

DR-VR

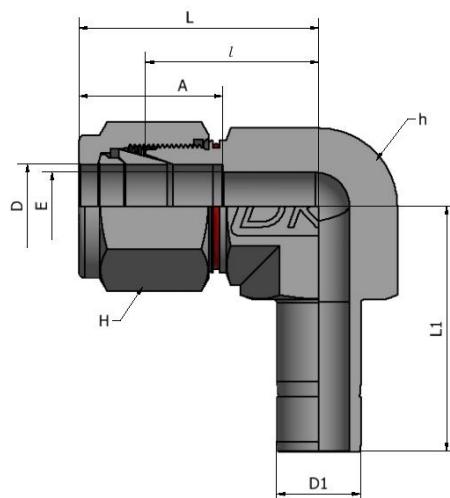
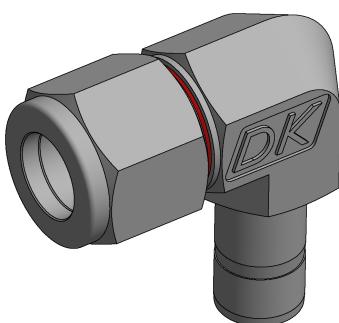


Metric

Part No.	Tube O.D		E Min.	Width across flat		A	l	L
	D	D1		H	H			
DR6M-3M-VR	6	3	1.8	14	16	15.3	29.5	36.9
DR6M-8M-VR	6	8	4.8	14	16	15.3	32.5	39.9
DR6M-10M-VR	6	10	4.8	14	16	15.3	33.3	40.7
DR6M-12M-VR	6	12	4.8	14	16	15.3	38.9	46.3
DR8M-6M-VR	8	6	4.6	16	17.46	16.2	32.8	40.3
DR8M-10M-VR	8	10	6.4	16	17.46	16.2	34.5	42
DR8M-12M-VR	8	12	6.4	16	17.46	16.2	40.1	47.6
DR10M-6M-VR	10	6	4.6	18	20.64	17.2	34.8	42.4
DR10M-12M-VR	10	12	7.9	18	20.64	17.1	42.2	49.8
DR10M-15M-VR	10	15	7.9	18	20.64	17.2	43.7	51.3
DR10M-18M-VR	10	18	7.9	19	20.64	17.2	43.7	51.3
DR12M-6M-VR	12	6	4.6	22	22.22	22.8	34.8	44.9
DR12M-10M-VR	12	10	7.7	22	22.22	22.8	36.6	46.7
DR12M-16M-VR	12	16	9.5	22	22.22	22.8	43.7	53.8
DR12M-18M-VR	12	18	9.5	22	22.22	22.8	43.7	53.8
DR12M-20M-VR	12	20	9.5	22	22.22	22.8	46	56.1
DR12M-22M-VR	12	22	9.5	24	22.22	22.8	46	56.1
DR12M-25M-VR	12	25	9.5	27	22.22	22.8	52.3	62.4
DR16M-12M-VR	16	12	9.1	24	25	24.4	42.9	53
DR18M-12M-VR	18	12	9.1	27	30	24.4	44.5	54.6
DR18M-16M-VR	18	16	12.7	27	30	24.4	46	56.1
DR18M-20M-VR	18	20	15.1	27	30	24.4	47.5	57.6
DR18M-22M-VR	18	22	15.1	27	30	24.4	47.5	57.6
DR18M-25M-VR	18	25	15.1	27	30	24.4	52.3	62.4
DR20M-16M-VR	20	16	12.7	30	32	26	47.8	57.9
DR20M-18M-VR	20	18	13.9	30	32	26	27.8	57.9
DR20M-22M-VR	20	22	15.8	30	32	26	49.3	59.4
DR20M-25M-VR	20	25	15.8	30	32	26	54.1	64.2
DR22M-18M-VR	22	18	13.9	30	32	26	47.8	57.9
DR22M-20M-VR	22	20	15.1	30	32	26	49.3	59.4
DR22M-25M-VR	22	25	18.3	30	32	26	54.1	64.2
DR25M-18M-VR	25	18	13.9	35	38	31.3	50.8	63.1
DR25M-20M-VR	25	20	15.1	35	38	31.3	52.3	64.6

Elbow Adapter

DLA-VR

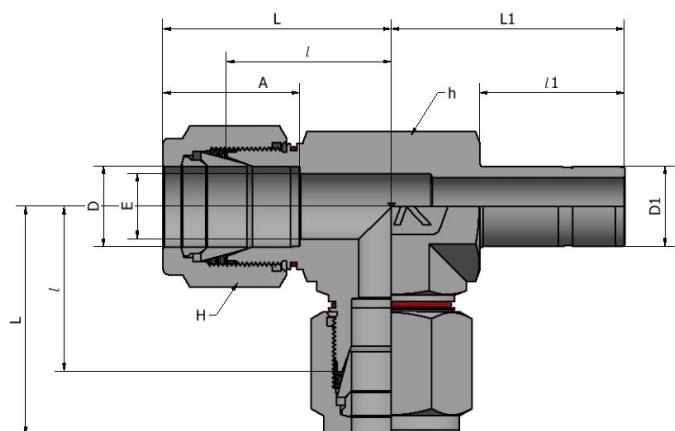
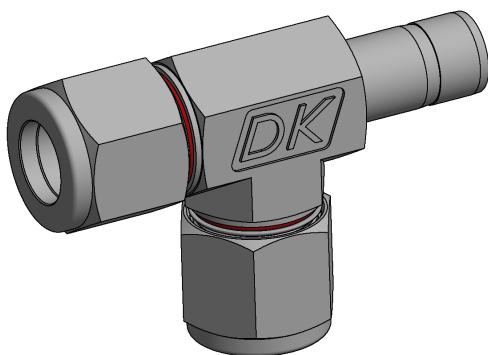


Metric

Part No.	Tube O.D		E Min.	Width across flat		A	l	l1	L	L1
	D	D1		h	H					
DLA-6M-VR	6	6	4.6	14.28	16	15.3	19.6	15.7	27	25
DLA-8M-VR	8	8	6.4	15.87	17.46	16.2	21.3	16.8	28.8	27.05
DLA-10M-VR	10	10	7.7	17.6	20.64	17.2	23.9	17.5	31.5	30
DLA-12M-VR	12	12	9.1	20.64	22.22	22.8	25.9	23.1	36	37.3
DLA-14M-VR	14	14	11.1	25.4	25	24.4	28.7	24.6	38.8	41.5
DLA-15M-VR	15	15	11.9	25.4	25	24.4	28.7	24.65	38.8	41.55
DLA-16M-VR	16	16	12.7	25.4	25	24.4	28.7	24.6	38.8	41.5
DLA-18M-VR	18	18	13.9	26.9	30	24.4	29.7	24.6	39.8	42
DLA-20M-VR	20	20	15.1	31.8	32	26	32.5	26.2	42.6	47
DLA-22M-VR	22	22	18.3	31.8	32	26	32.5	26.6	42.6	47.15
DLA-25M-VR	25	25	19.8	34.9	38	31.3	36.8	31.7	49.1	55.2

Run Tee Adapter

DTTRA-VR

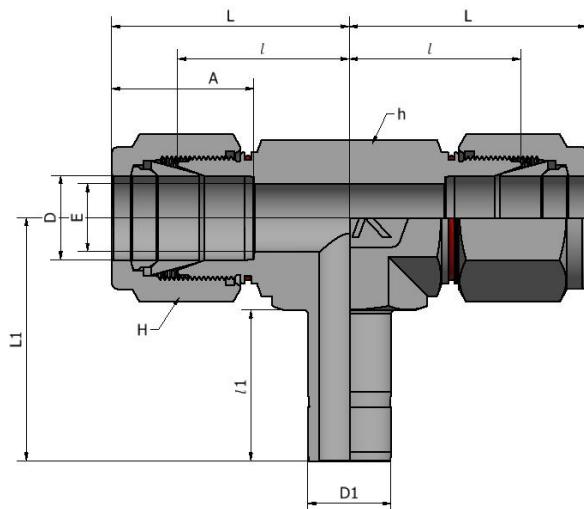
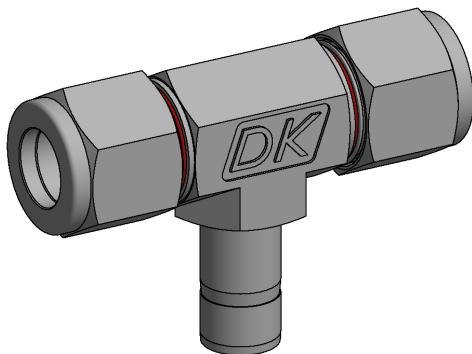


Metric

Part No.	Tube O.D		E Min.	Width across flat		A	l	l1	L	L1
	D	D1		h	H					
DLA-8M-VR	8	8	6.4	15.87	17.46	16.2	21.3	16.8	28.8	27.5
DLA-10M-VR	10	10	7.9	17.46	20.64	17.2	23.9	17.5	31.5	30

Branch Tee Adapter

DTBA-VR

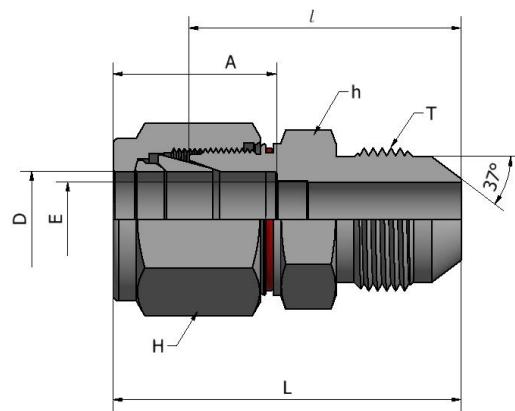
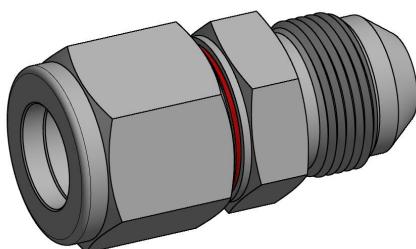


Metric

Part No.	Tube O.D		E Min.	Width across flat		A	l	l1	L	L1
	D	D1		h	H					
DTBA-8M-VR	8	8	6.4	15.87	17.46	16.2	21.3	16.8	28.8	27.5

AN Union

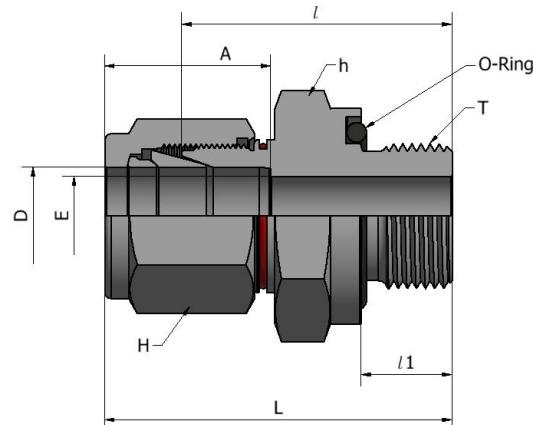
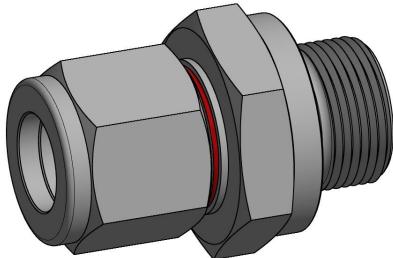
DUA-VR



Fractional

Part No.	Tube O.D D		AN Tube Flare Size		Straight Thread T(U)	E Min.	Width across flat				A	l	L
	In.	mm	In.	mm			h	H	In.	mm			
	In.	mm	In.	mm			In.	mm	In.	mm			
DUA4-4-VR	1/4	6.35	1/4	6.35	7/16-20	4.31	9/16	14.28	5/8	15.87	15.24	30.22	37.59
DUA5-5-VR	5/16	7.93	5/16	7.93	1/2-20	5.84	5/8	15.87	11/16	17.46	16.25	30.98	38.35
DUA6-4-VR	3/8	9.52	1/4	6.35	7/16-20	4.31	11/16	17.46	13/16	20.64	16.76	32.25	39.62
DUA6-6-VR	3/8	9.52	3/8	9.52	9/16-18	7.11	11/16	17.46	13/16	20.64	16.76	32.25	39.62
DUA8-8-VR	1/2	12.7	1/2	12.7	3/4-16	9.9	13/16	20.64	7/8	22.22	22.86	35.81	45.97
DUA12-12-VR	3/4	19.05	3/4	19.05	1-1/16-12	15.49	1-1/8	28.58	1-1/8	28.58	24.38	43.18	53.34
DUA16-16-VR	1	25.4	1	25.4	1-5/16-12	21.33	1-3/8	34.92	1-1/2	38.1	31.24	49.27	61.46

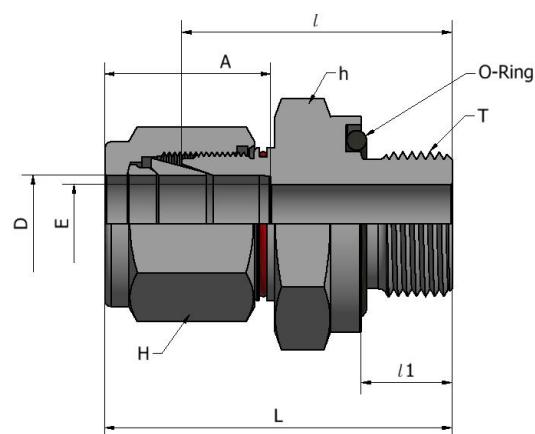
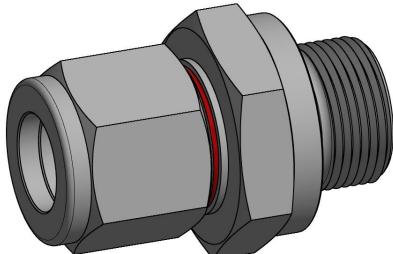
O-Seal Straight Thread Connector

DMC-UO-VR

Fractional

Part No.	Tube O.D D		Straight Thread T(U)	E Min.	Width across flat				A	l	l1	L	O-Ring Uniform Size Number					
	In.	mm			h		H											
	In.	mm			In.	mm	In.	mm										
DMC4-4UO-VR	1/4	6.35	7/16-20	4.82	3/4	19.05	5/8	15.87	15.24	30.98	10.41	38.35	-013					
DMC5-5UO-VR	5/16	7.93	1/2-20	6.35	7/8	22.22	11/16	17.46	16.25	33.27	11.17	40.64	-112					
DMC6-6UO-VR	3/8	9.52	9/16-18	7.11	15/16	23.81	13/16	20.64	16.76	35.05	11.93	42.41	-113					
DMC8-8UO-VR	1/2	12.7	3/4-16	10.41	1-1/8	28.57	7/8	22.22	22.86	35.81	11.93	45.97	-116					
DMC12-12UO-VR	3/4	19.05	1-1/16-12	15.74	1-1/2	38.1	1-1/8	28.58	24.38	42.16	14.22	52.32	-121					
DMC16-16UO-VR	1	25.4	1-5/16-12	22.35	1-3/4	44.45	1-1/2	38.1	31.24	45.97	14.22	58.16	-125					

O-Seal Pipe Thread Connector

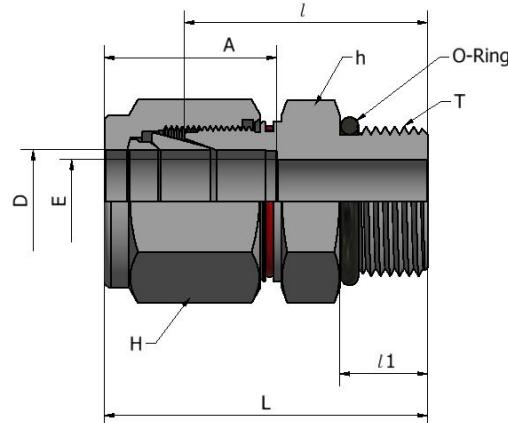
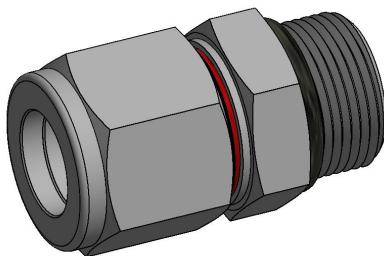
DMC-NO-VR

Fractional

Part No.	Tube O.D D		T NPT	E Min.	Width across flat				A	l	l1	L	O-Ring Uniform Size Number					
	In.	mm			h		H											
	In.	mm			In.	mm	In.	mm										
DMC4-2NO-VR	1/4	6.35	1/8	4.82	3/4	19.05	5/8	15.87	15.24	27.68	7.11	35.05	-013					
DMC4-4NO-VR	1/4	6.35	1/4	4.82	15/16	23.81	5/8	15.87	15.24	30.98	9.65	38.35	-113					
DMC6-4NO-VR	3/8	9.52	1/4	7.11	15/16	23.81	13/16	20.64	16.76	32.51	9.65	37.87	-113					
DMC6-6NO-VR	3/8	9.52	3/8	7.11	1-1/8	28.58	13/16	20.64	16.76	34.03	10.41	41.4	-116					
DMC6-8NO-VR	3/8	9.52	1/2	7.11	1-5/16	33.33	13/16	20.64	16.76	39.62	13.46	46.99	-118					
DMC8-8NO-VR	1/2	12.7	1/2	10.41	1-5/16	33.33	7/8	22.22	22.86	39.62	13.46	49.78	-118					

Non-Positionable SAE Male Connector

DMCS-U-VR



Fractional

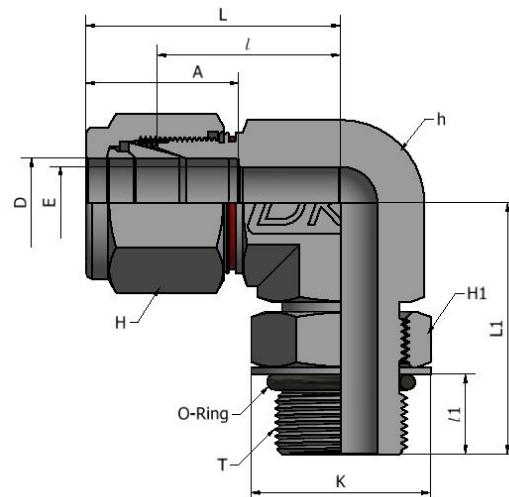
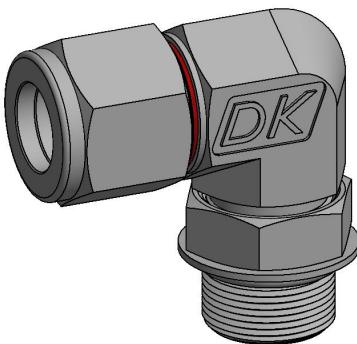
Part No.	Tube O.D D		Straight Thread T(U)	E Min.	Width across flat				A		l1	L	O-Ring Uniform Size Number					
	In.	mm			h		H											
					In.	mm	In.	mm										
DMCS4-4U-VR	1/4	6.35	7/16-20	4.82	9/16	14.28	5/8	15.87	15.24	26.67	9.14	34.03	-904					
DMCS4-6U-VR	1/4	6.35	9/16-18	4.82	11/16	17.46	5/8	15.87	15.24	28.19	9.9	35.56	-906					
DMCS4-8U-VR	1/4	6.35	3/4-16	4.82	7/8	22.22	5/8	15.87	15.24	30.22	11.17	37.59	-908					
DMCS4-10U-VR	1/4	6.35	7/8-14	4.82	1	25.4	5/8	15.87	15.24	33.27	12.7	40.64	-910					
DMCS5-5U-VR	5/16	9.73	1/2-20	5.84	5/8	15.87	11/16	17.46	16.25	27.43	9.14	34.79	-905					
DMCS6-4U-VR	3/8	9.52	7/16-20	5.08	11/16	17.46	13/16	20.64	16.76	28.19	9.14	35.56	-904					
DMCS6-6U-VR	3/8	9.52	9/16-18	7.11	11/16	17.46	13/16	20.64	16.76	29.71	9.9	37.08	-906					
DMCS6-8U-VR	3/8	9.52	3/4-16	7.11	7/8	22.22	13/16	20.64	16.76	31.75	11.17	39.11	-908					
DMCS6-10U-VR	3/8	9.52	7/8-14	7.11	1	25.4	13/16	20.64	16.76	34.79	12.7	42.16	-910					
DMCS8-6U-VR	1/2	12.7	9/16-18	7.11	13/16	20.64	7/8	22.22	22.86	28.95	9.9	39.11	-906					
DMCS8-8U-VR	1/2	12.7	3/4-16	10.41	7/8	22.22	7/8	22.22	22.86	31.75	11.17	41.91	-908					
DMCS8-10U-VR	1/2	12.7	7/8-14	10.41	1	25.4	7/8	22.22	22.86	34.79	12.7	44.95	-910					
DMCS8-12U-VR	1/2	12.7	1-1/16-12	10.41	1-1/4	31.75	7/8	22.22	22.86	38.86	14.98	49.02	-912					
DMCS10-8U-VR	5/8	15.87	3/4-16	10.66	15/16	23.81	1	25.4	24.38	31.75	31.75	41.91	-908					
DMCS10-10U-VR	5/8	15.87	7/8-14	12.7	1	25.4	1	25.4	24.38	35.05	12.7	45.21	-910					
DMCS12-8U-VR	3/4	19.05	3/4-16	10.66	1-1/16	26.98	1-1/8	28.58	24.38	35.81	11.17	45.97	-908					
DMCS12-12U-VR	3/4	19.05	1-1/16-12	15.74	1-1/4	31.75	1-1/8	28.58	24.38	38.86	14.98	49.02	-912					
DMCS14-14U-VR	7/8	22.22	1-3/16-12	18.28	1-3/8	34.92	1-1/4	31.75	25.9	38.86	14.98	49.02	-914					
DMCS16-12U-VR	1	25.4	1-1/16-12	16.76	1-3/8	34.92	1-1/2	38.1	31.24	41.14	14.98	53.34	-912					
DMCS16-16U-VR	1	25.4	1-5/16-12	22.35	1-1/2	38.1	1-1/2	38.1	31.24	42.16	14.98	54.35	-916					

Metric

Part No.	Tube O.D D	Straight Thread T(U)	E Min.	Width across flat		A	l	l1	L	O-Ring Uniform Size Number
				h	H					
DMCS6M-6U-VR	6	9/16-18	4.8	18	16	15.3	28.2	9.9	36.5	-906
DMCS10M-6U-VR	10	9/16-18	7.9	18	20.64	17.2	29.7	9.9	37.3	-906
DMCS10M-8U-VR	10	3/4-16	7.9	22	20.64	17.2	31.8	11.17	39.4	-908
DMCS12M-4U-VR	12	7/16-20	5.2	22	22.22	22.8	28.2	9.14	38.3	-904
DMCS12M-6U-VR	12	9/16-18	7.5	22	22.22	22.8	29	9.9	39.1	-906

Positionable SAE Male Elbow

DLS-UP-VR

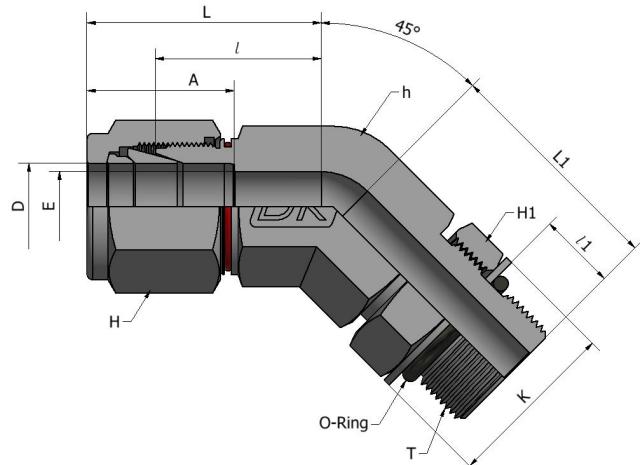
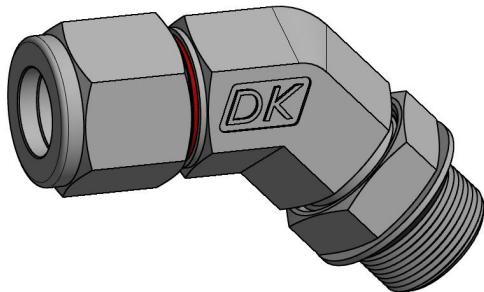


Fractional

Part No.	Tube O.D D		Straight Thread T(U)	E Min.	Width across flat						A	l	l1	L	L1	K	O-Ring Uniform Size Number									
					h		H		H1																	
	In.	mm			In.	mm	In.	mm	In.	mm																
DLS4-4UP-VR	1/4	6.35	7/16-20	4.82	9/16	14.28	5/8	15.87	9/16	14.28	15.24	21.08	9.9	28.44	28.44	16.51	-904									
DLS5-5UP-VR	5/16	7.93	1/2-20	5.84	5/8	15.87	11/16	17.46	5/8	15.87	16.25	22.86	9.9	30.22	29.46	18.28	-905									
DLS6-6UP-VR	3/8	9.52	9/16-18	7.11	11/16	17.46	13/16	20.64	11/16	17.46	16.76	24.63	11.17	32	32.25	20.06	-906									
DLS6-8UP-VR	3/8	9.52	3/4-16	7.11	13/16	20.64	13/16	20.64	7/8	22.22	16.76	27.43	12.7	34.79	37.84	25.65	-908									
DLS8-8UP-VR	1/2	12.7	3/4-16	10.41	13/16	20.64	7/8	22.22	7/8	22.22	22.86	27.43	12.7	37.59	37.84	25.65	-908									
DLS10-10UP-VR	5/8	15.87	7/8-14	12.7	1	25.4	1	25.4	1	25.4	24.38	29.46	14.22	39.62	43.43	29.46	-910									
DLS12-12UP-VR	3/4	19.05	1-1/16-12	15.74	1-1/16	26.98	1-1/8	28.58	1-1/4	31.75	24.38	31.24	16.76	41.4	48.76	36.57	-912									
DLS14-14UP-VR	7/8	22.22	1-3/16-12	18.28	1-1/4	31.75	1-1/4	31.75	1-3/8	34.92	25.9	33.02	16.76	43.18	50.54	40.38	-914									
DLS16-16UP-VR	1	25.4	1-5/16-12	22.35	1-3/8	34.92	1-1/2	38.1	1-1/2	38.1	31.24	38.35	16.76	50.54	53.59	43.94	-916									

Positionable 45° SAE Male Elbow

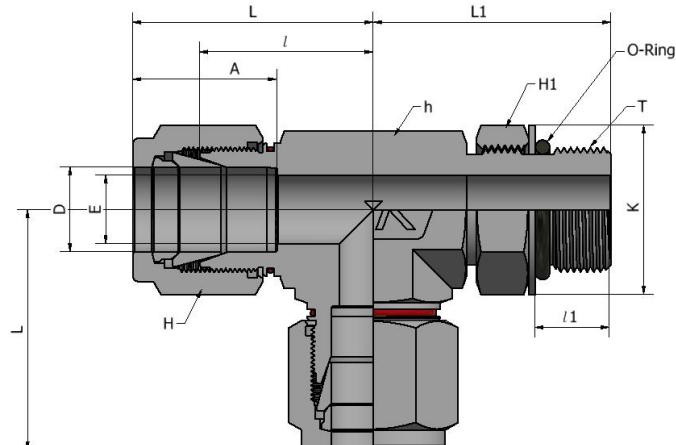
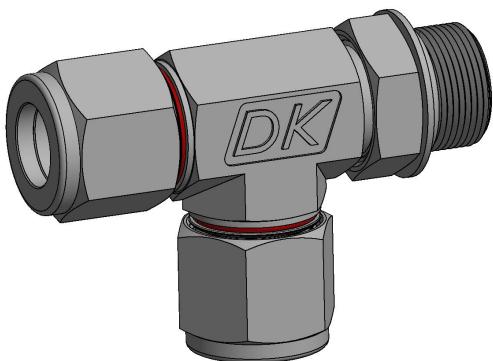
DLBS-UP-VR



Fractional

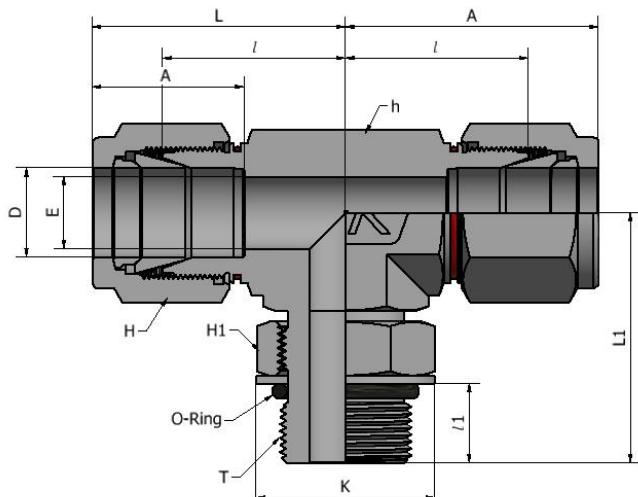
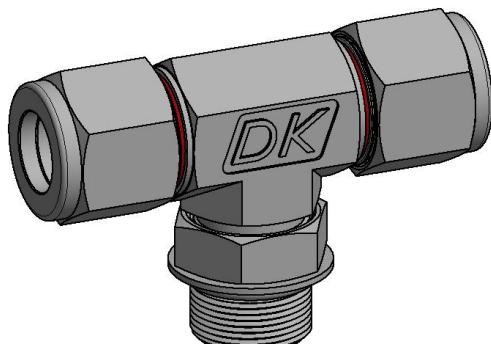
Part No.	Tube O.D D		Straight Thread T(U)	E Min.	Width across flat						A	l	l1	L	L1	K	O-Ring Uniform Size Number									
					h		H		H1																	
	In.	mm			In.	mm	In.	mm	In.	mm																
DLBS4-4UP-VR	1/4	6.35	7/16-20	4.82	9/16	14.28	5/8	15.87	9/16	14.28	15.24	18.28	9.9	25.65	25.65	16.51	-904									
DLBS6-6UP-VR	3/8	9.52	9/16-18	7.11	11/16	17.46	13/16	20.64	11/16	17.46	16.76	20.57	11.17	27.94	28.19	20.06	-906									
DLBS8-8UP-VR	1/2	12.7	3/4-16	10.41	13/16	20.64	7/8	22.22	7/8	22.22	22.86	21.84	12.7	32	32.25	25.65	-908									
DLBS12-12UP-VR	3/4	19.05	1-1/16-12	15.74	1-1/8	28.58	1-1/8	28.58	1-1/4	31.75	24.38	29.71	16.76	39.87	47.24	36.57	-912									
DLBS16-16UP-VR	1	25.4	1-5/16-12	22.35	1-3/8	34.92	1-1/2	38.1	1-1/2	38.1	31.24	35.3	16.76	47.49	50.54	43.94	-916									

Positionable SAE Male Run Tee

DTRS-UP-VR**Fractional**

Part No.	Tube O.D D		Straight Thread T(U)	E Min.	Width across flat						A	l	l1	L	L1	K	O-Ring Uniform Size Number									
					h		H		H1																	
	In.	mm			In.	mm	In.	mm	In.	mm																
DTRS4-4UP-VR	1/4	6.35	7/16-20	4.82	9/16	14.28	5/8	15.87	9/16	14.28	15.24	21.08	9.9	28.44	28.44	16.51	-904									
DTRS6-6UP-VR	3/8	9.52	9/16-18	7.11	11/16	17.46	13/16	20.64	11/16	17.46	16.76	24.63	11.17	32	32.25	20.06	-906									
DTRS8-8UP-VR	1/2	12.7	3/4-16	10.41	13/16	20.64	7/8	22.22	7/8	22.22	22.86	27.43	12.7	37.59	37.84	25.65	-908									
DTRS12-12UP-VR	3/4	19.05	1-1/16-12	15.74	1-1/8	26.98	1-1/8	28.58	1-1/4	31.75	24.38	31.24	16.76	41.4	48.76	36.57	-912									
DTRS16-16UP-VR	1	25.4	1-5/16-12	22.35	1-3/8	34.92	1-1/2	38.1	1-1/2	38.1	31.24	38.35	16.76	50.54	50.54	43.94	-916									

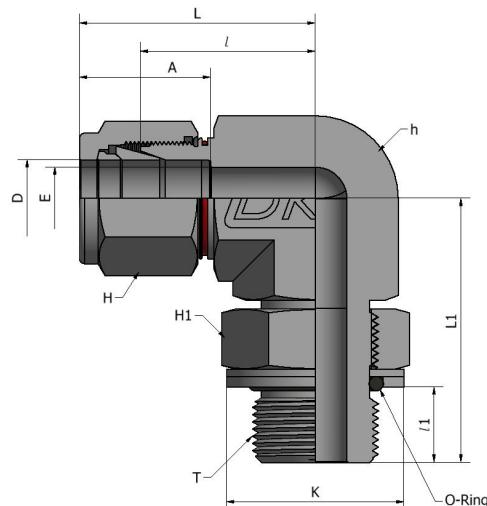
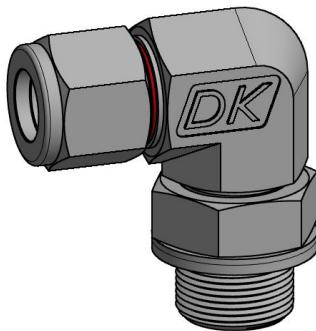
Positionable SAE Male Branch Tee

DTBS-UP-VR**Fractional**

Part No.	Tube O.D D		Straight Thread T(U)	E Min.	Width across flat						A	l	l1	L	L1	K	O-Ring Uniform Size Number									
					h		H		H1																	
	In.	mm			In.	mm	In.	mm	In.	mm																
DTBS4-4UP-VR	1/4	6.35	7/16-20	4.82	9/16	14.28	5/8	15.87	9/16	14.28	15.24	21.08	9.9	28.44	28.44	16.51	-904									
DTBS6-6UP-VR	3/8	9.52	9/16-18	7.11	11/16	17.46	13/16	20.64	11/16	17.46	16.76	24.63	11.17	32	32.25	20.06	-906									
DTBS8-8UP-VR	1/2	12.7	3/4-16	10.41	13/16	20.64	7/8	22.22	7/8	22.22	22.86	27.43	12.7	37.59	37.84	25.65	-908									
DTBS12-12UP-VR	3/4	19.05	1-1/16-12	15.74	1-1/8	26.98	1-1/8	28.58	1-1/4	31.75	24.38	31.24	16.76	41.4	48.76	36.57	-912									
DTBS16-16UP-VR	1	25.4	1-5/16-12	22.35	1-3/8	34.92	1-1/2	38.1	1-1/2	38.1	31.24	38.35	16.76	50.54	50.54	43.94	-916									

Positionable Male Elbow

DLM-GP-VR



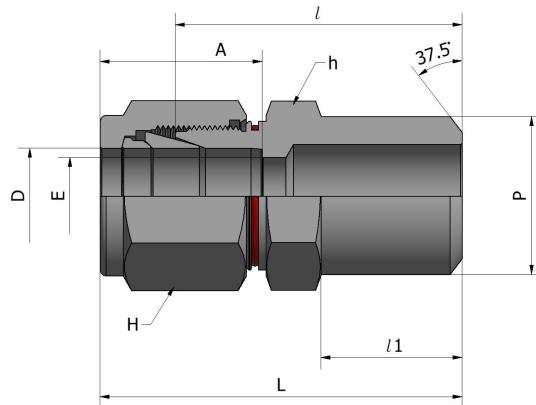
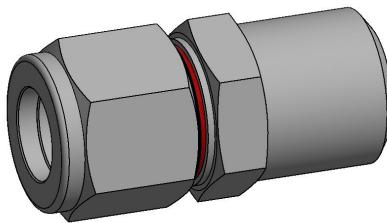
Fractional

Part No.	Tube O.D D		T G(PF)	E Min.	Width across flat						A	l	l1	L	L1	K	O-Ring Uniform Size Number
	In.	mm			h		H		H1								
					In.	mm	In.	mm	In.	mm							
DLM4-2GP-VR	1/4	6.35	1/8	4.06	9/16	14.28	5/8	15.87	9/16	14.28	15.24	19.6	8.12	26.92	26.42	15.2	P8
DLM4-4GP-VR	1/4	6.35	1/4	4.82	5/8	15.87	5/8	15.87	3/4	19.05	15.24	21.6	9.14	28.95	32.3	20.3	-111
DLM6-4GP-VR	3/8	9.52	1/4	5.84	11/16	17.46	13/16	20.64	3/4	19.05	16.76	23.1	9.14	30.48	32.3	20.3	-111
DLM6-6GP-VR	3/8	9.52	3/8	7.11	13/16	20.64	13/16	20.64	3/4	19.05	16.76	25.9	9.39	33.27	37.1	24.4	-113
DLM8-4GP-VR	1/2	12.7	1/4	5.84	13/16	20.64	7/8	22.22	7/8	22.22	22.86	25.9	9.14	36.06	35.1	20.3	-111
DLM8-6GP-VR	1/2	12.7	3/8	7.87	13/16	20.64	7/8	22.22	7/8	22.22	22.86	25.9	9.39	36.06	37.1	24.4	-113
DLM8-8GP-VR	1/2	12.7	1/2	10.41	15/16	23.81	7/8	22.22	1-1/16	26.98	22.86	27.9	12.95	38.1	43.4	29.5	P18
DLM12-8GP-VR	3/4	19.05	1/2	11.93	1-1/16	26.98	1-1/8	26.98	1-1/16	26.98	24.38	29.7	12.95	39.87	45.21	29.5	P18
DLM12-12GP-VR	3/4	19.05	3/4	15.74	1-1/16	26.98	1-1/8	26.98	1-3/8	34.92	24.38	29.7	12.95	39.87	48.77	36.3	-119
DLM16-16GP-VR	1	25.4	1	19.81	1-3/8	34.92	1-1/2	38.1	1-5/8	41.28	31.24	36.8	13.97	49.02	53.6	46.2	-217

Metric

Part No.	Tube O.D D	T G(PF)	E Min.	Width across flat			A	l	l1	L	L1	K	O-Ring Uniform Size Number
				h	H	H1							
DLM6M-2GP-VR	6	1/8	4	14.28	16	14.28	15.3	19.6	8.1	27	26.4	15.2	P8
DLM6M-4GP-VR	6	1/4	4.8	15.8	16	19.05	15.3	21.6	9.1	29	32.3	20.3	-111
DLM6M-6GP-VR	6	3/8	4.8	20.6	16	22.22	15.3	24.4	9.4	31.8	37.1	24.4	-113
DLM8M-2GP-VR	8	1/8	4	15.87	17.46	14.28	16.2	21.3	8.1	28.8	27.4	15.2	P8
DLM8M-4GP-VR	8	1/4	5.9	15.87	17.46	19.05	16.2	22.4	9.1	29.9	32.2	20.3	-111
DLM10M-4GP-VR	10	1/4	5.9	20.6	20.64	19.05	17.2	25.9	9.1	33.5	35	20.3	-113
DLM10M-6GP-VR	10	3/8	7.9	20.6	20.64	22.22	17.2	25.9	9.4	33.5	37.1	24.4	-111
DLM12M-4GP-VR	12	1/4	5.9	20.6	22.22	19.05	22.8	25.9	9.1	36	35	20.3	-113
DLM12M-6GP-VR	12	3/8	7.9	20.6	22.22	22.22	22.8	25.9	9.4	36	37.1	24.4	-113
DLM12M-8GP-VR	12	1/2	9.5	20.6	22.22	26.98	22.8	27.9	13	38	43.4	29.5	P18

Male Pipe Weld Connector

DCW-VR**Fractional**

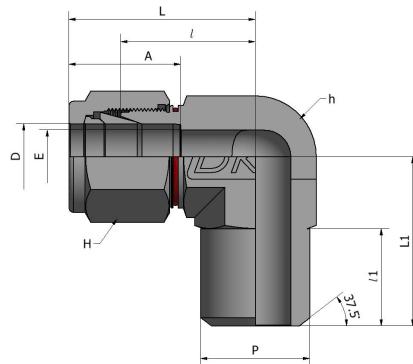
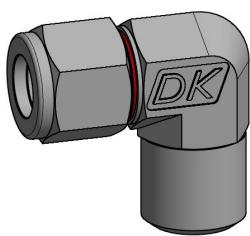
Part No.	Tube O.D D		Male PIPE Size P		E Min.	Width across flat				A	l	l1	L				
	In.	mm	Nom.	O.D.		h		H									
						In.	mm	In.	mm								
DCW4-2P-VR	1/4	6.35	1/8	10.29	4.82	9/19	14.28	5/8	15.87	15.24	25.4	9.65	32.76				
DCW4-4P-VR	1/4	6.35	1/4	13.72	4.82	9/16	14.28	5/8	15.87	15.24	30.48	14.22	37.84				
DCW5-2P-VR	5/16	7.93	1/8	10.29	5.08	5/8	15.87	11/16	17.46	16.25	26.67	9.65	34.03				
DCW5-4P-VR	5/16	7.93	1/4	13.72	6.35	5/8	15.87	11/16	17.46	16.25	31.24	14.22	38.6				
DCW6-4P-VR	3/8	9.52	1/4	13.72	7.11	11/16	17.46	13/16	20.64	16.76	32.51	14.22	39.87				
DCW6-6P-VR	3/8	9.52	3/8	17.15	7.11	11/16	17.46	13/16	20.64	16.76	32.51	14.22	39.87				
DCW6-8P-VR	3/8	9.52	1/2	21.34	7.11	7/8	22.22	13/16	20.64	16.76	38.86	11.05	43.23				
DCW8-6P-VR	1/2	12.7	3/8	17.15	10.41	13/16	20.64	7/8	22.22	22.86	33.27	14.22	43.43				
DCW8-8P-VR	1/2	12.7	1/2	21.34	10.41	7/8	22.22	7/8	22.22	22.86	38.86	19.05	49.02				
DCW8-12P-VR	1/2	12.7	3/4	26.67	10.41	1-1/16	26.98	7/8	22.22	22.86	40.38	19.05	50.54				
DCW10-8P-VR	5/8	15.87	1/2	21.34	12.7	15/16	23.81			24.38	38.86	19.05	49.02				
DCW12-12P-VR	3/4	19.05	3/4	26.67	15.74	1-1/16	26.98	1-1/8	28.58	24.38	40.38	19.05	50.54				
DCW16-16P-VR	1	25.4	1	33.4	22.35	1-3/8	34.92	1-1/2	38.1	31.24	50.03	23.87	62.23				

Metric

Part No.	Tube O.D D	Male Pipe Size P		E Min.	Width across flat		A	l	l1	L
		Nom.	O.D.		h	H				
DCW6M-2P-VR	6	1/8	10.29	4.8	14	16	15.3	25.4	9.7	32.8
DCW6M-4P-VR	6	1/4	13.72	4.8	14	16	15.3	30.2	14.2	37.6
DCW8M-2P-VR	8	1/8	10.29	5.1	16	17.46	16.2	26.7	9.7	34.2
DCW8M-4P-VR	8	1/4	13.72	6.4	16	17.46	16.2	31.2	14.2	38.7
DCW8M-8P-VR	8	1/2	21.34	6.4	22	17.46	16.2	37.3	19	44.8
DCW10M-4P-VR	10	1/4	13.72	7.1	18	20.64	17.2	33.3	14.2	40.9
DCW10M-6P-VR	10	3/8	17.15	7.9	18	20.64	17.2	32.5	14.2	40.1
DCW10M-8P-VR	10	1/2	21.34	7.9	22	20.64	17.2	38.1	19	45.7
DCW12M-4P-VR	12	1/4	13.72	7.1	22	22.22	22.8	33.3	14.2	43.4
DCW12M-6P-VR	12	3/8	17.15	9.5	22	22.22	22.8	33.3	14.2	43.4
DCW12M-8P-VR	12	1/2	21.34	9.5	22	22.22	22.8	38.1	19	48.2
DCW14M-6P-VR	14	3/8	17.15	10.3	24	25	24.4	34	14.2	44.1
DCW15M-8P-VR	15	1/2	21.34	11.9	24	25	24.4	38.9	19	49
DCW16M-8P-VR	16	1/2	21.34	12.7	24	25	24.4	38.9	19	49
DCW18M-8P-VR	18	1/2	21.34	13.5	27	20	24.4	40.4	19	50.5

Male Pipe Weld Elbow

DLW-VR

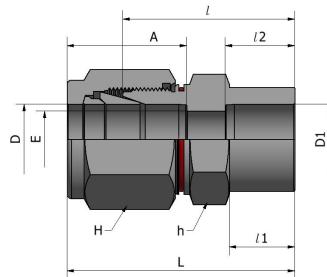
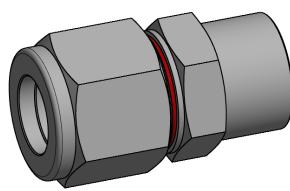


Fractional

Part No.	Tube O.D		Male PIPE Size		E Min.	Width across flat				A	l	l1	L	L1
	In.	mm	Nom.	O.D.		h	mm	In.	mm					
DLW4-4P-VR	1/4	6.35	1/4	13.72	4.82	9/16	14.28	5/8	15.87	15.24	26	14.22	33.37	23.36
DLW6-4P-VR	3/8	9.52	1/4	13.72	7.11	11/16	17.46	13/16	20.64	16.76	26	14.22	33.37	25.4
DLW8-8P-VR	1/2	12.7	1/2	21.34	10.41	13/16	20.64	7/8	22.22	22.86	28	19.05	38.16	33.02
DLW12-12P-VR	3/4	19.05	3/4	26.67	15.74	1-1/16	26.98	1-1/8	28.58	24.38	34	19.05	44.16	36.83

Tube Socket Weld Connector

DCSW-VR

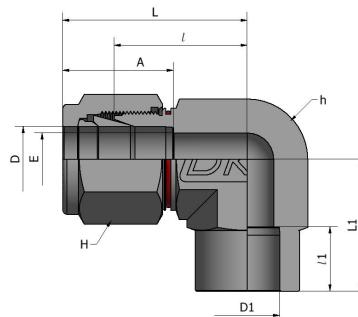
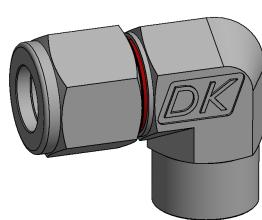


Fractional

Part No.	Tube O.D				E Min.	Width across flat				A	l	l1	l2	L	
	D		D1			h	mm	In.	mm						
	In.	mm	In.	mm											
DCSW4-4-VR	1/4	6.35	1/4	6.35	4.82	9/16	14.28	5/8	15.87	15.24	26.16	10.41	7.87	33.52	
DCSW6-6-VR	3/8	9.52	3/8	9.52	7.11	11/16	17.46	13/16	20.64	16.76	30.22	11.93	9.65	37.59	
DCSW8-8-VR	1/2	12.7	1/2	12.7	10.41	13/16	20.64	7/8	22.22	22.86	30.98	11.93	12.7	41.14	
DCSW12-12-VR	3/4	19.05	3/4	19.05	15.74	1-1/16	26.98	1-1/8	28.58	24.38	33.27	11.93	14.22	43.43	
DCSW16-16-VR	1	25.4	1	25.4	22.35	1-3/8	34.92	1-1/2	38.1	31.24	40.38	14.22	19.05	52.57	

Tube Socket Weld Elbow

DLSW-VR

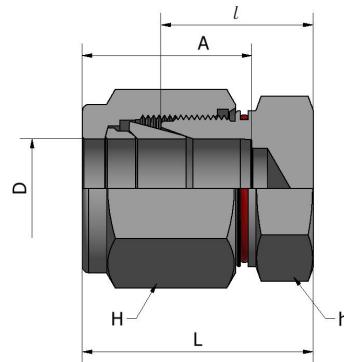
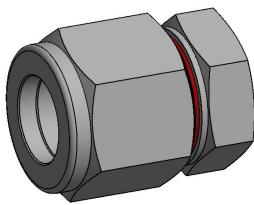


Fractional

Part No.	Tube O.D				E Min.	Width across flat				A	l	l1	L	L1	
	D		D1			h	mm	In.	mm						
	In.	mm	In.	mm											
DLSW4-4-VR	1/4	6.35	1/4	6.35	4.82	9/16	14.28	5/8	15.87	15.24	26	7.87	33.37	19.55	
DLSW6-6-VR	3/8	9.52	3/8	9.52	7.11	11/16	17.46	13/16	20.64	16.76	26	9.65	33.37	23.11	
DLSW8-8-VR	1/2	12.7	1/2	12.7	10.41	13/16	20.64	7/8	22.22	22.86	28	12.7	38.16	25.9	
DLSW12-12-VR	3/4	19.05	3/4	19.05	15.74	1-1/16	26.98	1-1/8	28.58	24.38	34	14.22	44.16	29.71	
DLSW16-16-VR	1	25.4	1	25.4	22.35	1-3/8	34.93	1-1/2	38.1	31.24	39.5	19.05	51.7	36.83	

Cap

DC-VR



Fractional

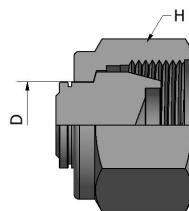
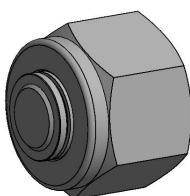
Part No.	Tube O.D		E Min.	Width across flat				A	l	L			
	D			h		H							
	In.	mm		In.	mm	In.	mm						
DC-4-VR	1/4	6.35	4.82	9/16	14.28	5/8	15.87	15.24	16	23.26			
DC-5-VR	5/16	7.93	6.35	5/8	15.87	11/16	17.46	16.25	17.01	24.38			
DC-6-VR	3/8	9.52	7.11	11/16	17.46	13/16	20.64	16.76	18.28	25.65			
DC-8-VR	1/2	12.7	10.41	13/16	20.64	7/8	22.22	22.86	19.05	29.21			
DC-10-VR	5/8	15.87	12.7	15/16	23.81	1	25.4	24.38	19.81	29.97			
DC-12-VR	3/4	19.05	15.74	1-1/16	26.98	1-1/8	28.58	24.38	21.33	31.49			
DC-14-VR	7/8	22.22	18.28	1-3/16	30.16	1-1/4	31.75	25.9	23.87	34.03			
DC-16-VR	1	25.4	22.35	1-3/8	34.92	1-1/2	38.1	31.24	26.16	38.35			

Metric

Part No.	Tube O.D	E Min.	Width across flat		A	l	L
			h	H			
DC-6M-VR	6	4.8	14	16	15.3	15.7	23.1
DC-8M-VR	8	6.4	16	17.46	16.2	17	24.5
DC-10M-VR	10	7.9	18	20.64	17.2	19	26.6
DC-12M-VR	12	9.5	20.64	22.22	22.8	19	29.1
DC-15M-VR	15	11.9	24	25	24.4	19.8	29.9
DC-16M-VR	16	12.7	24	25	24.4	19.8	29.9
DC-18M-VR	18	15.1	27	30	24.4	21.3	31.4
DC-20M-VR	20	15.9	30	32	26	23.9	34
DC-22M-VR	22	18.3	30	32	26	23.9	34
DC-25M-VR	25	21.8	35	38	31.3	26.2	38.5

Plug

DP / DP-VR



Fractional

Part No.	Tube O.D		Width across flat		Part No.	Tube O.D	Width across flat			
	D		H							
	In.	mm	In.	mm						
DP-4-VR	1/4	6.35	5/8	15.87	DP-6M-VR	6	16			
DP-5-VR	5/16	7.93	11/16	17.46	DP-8M-VR	8	17.46			
DP-6-VR	3/8	9.52	13/16	20.64	DP-10M-VR	10	20.64			
* DP-8	1/2	12.7	7/8	22.22	* DP-12M	12	22.22			
* DP-10	5/8	15.87	1	25.4	* DP-15M	15	25			
* DP-12	3/4	19.05	1-1/8	25.58	* DP-16M	16	25			
* DP-14	7/8	22.22	1-1/4	31.75	* DP-18M	18	30			
* DP-16	1	25.4	1-1/2	38.1	* DP-20M	20	32			

Metric

Part No.	Tube O.D	Width across flat
DP-6M-VR	6	16
DP-8M-VR	8	17.46
DP-10M-VR	10	20.64
* DP-12M	12	22.22
* DP-15M	15	25
* DP-16M	16	25
* DP-18M	18	30
* DP-20M	20	32
* DP-22M	22	32
* DP-25M	25	38

Installation Instructions

Plug is for plugging un-used DK-Lok VR Series port.

1. Remove the nut and ferrule from the DK-Lok VR Series fitting body.
2. Finger-tighten the plug.
3. Tighten the plug 1/4 turn beyond the finger-tight position, keeping the fitting body steady with a backup wrench.

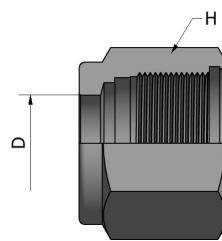
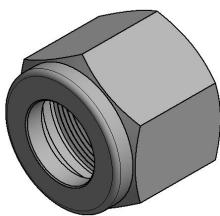
Caution

- The Plug is not assembled by Page 3. (Product Identification / Visual Inspection)
- Do not tighten 1-1/4 turns as this has machined ferrule not the standard ferrule.

" * " Products are same as DK-Lok Tube Fitting.

NUT

DN-VR



Fractional

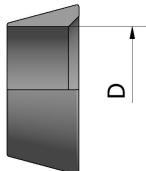
Part No.	Tube O.D D		Width across flat	
	In.	mm	In.	mm
DN-4-VR	1/4	6.35	5/8	15.87
DN-5-VR	5/16	7.93	11/16	17.46
DN-6-VR	3/8	9.52	13/16	20.64
DN-8-VR	1/2	12.7	7/8	22.22
DN-10-VR	5/8	15.87	1	25.4
DN-12-VR	3/4	19.05	1-1/8	28.58
DN-14-VR	7/8	22.22	1-1/4	31.75
DN-16-VR	1	25.4	1-1/2	38.1

Metric

Part No.	Tube O.D D		Width across flat	
		H		H
DN-6M-VR	6		16	
DN-8M-VR	8		17.46	
DN-10M-VR	10		20.64	
DN-12M-VR	12		22.22	
DN-15M-VR	15		25	
DN-16M-VR	16		25	
DN-18M-VR	18		30	
DN-20M-VR	20		32	
DN-22M-VR	22		32	
DN-25M-VR	25		38	

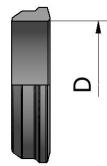
Front Ferrule

DFF



Back Ferrule

DFB



Fractional

Part No.	Tube O.D D	
	In.	mm
DFF-4	1/4	6.35
DFF-5	5/16	7.93
DFF-6	3/8	9.52
DFF-8	1/2	12.7
DFF-10	5/8	15.87
DFF-12	3/4	19.05
DFF-14	7/8	22.22
DFF-16	1	25.4

Metric

Part No.		
	Tube O.D D	
	In.	mm
DFF-6M	6	
DFF-8M	8	
DFF-10M	10	
DFF-12M	12	
DFF-15M	15	
DFF-16M	16	
DFF-18M	18	
DFF-20M	20	
DFF-22M	22	
DFF-25M	25	

Fractional

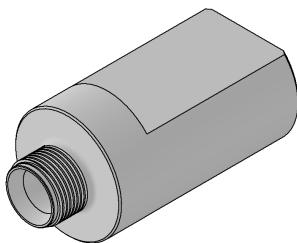
Part No.	Tube O.D D	
	In.	mm
DFB-4	1/4	6.35
DFB-5	5/16	7.93
DFB-6	3/8	9.52
DFB-8	1/2	12.7
DFB-10	5/8	15.87
DFB-12	3/4	19.05
DFB-14	7/8	22.22
DFB-16	1	25.4

Metric

Part No.		
	Tube O.D D	
	In.	mm
DFB-6M	6	
DFB-8M	8	
DFB-10M	10	
DFB-12M	12	
DFB-15M	15	
DFB-16M	16	
DFB-18M	18	
DFB-20M	20	
DFB-22M	22	
DFB-25M	25	

Pre-swaging Tool(DPS)

DPS / DPS-VR



Fractional

Part No.	Tube O.D
DPS-4-VR-C	1/4
DPS-5-VR-C	5/16
DPS-6-VR-C	3/8
* DPS-8-C	1/2
* DPS-12-C	3/4
* DPS-16-C	1

" * " Products are same as DK-Lok Tube Fitting.

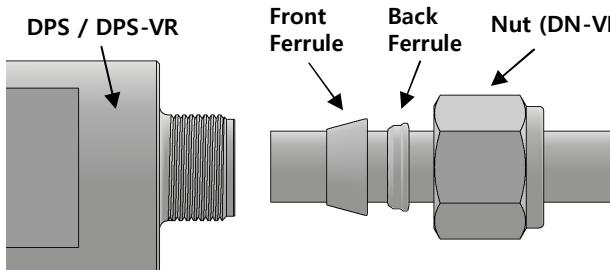
Metric

Part No.	Tube O.D D
DPS-6M-VR	6
DPS-8M-VR	8
* DPS-10M	10
* DPS-12M	12
* DPS-16M	16
* DPS-18M	18
* DPS-20M	20
* DPS-22M	22
* DPS-25M	25

Operating Instructions

Operation on Pre-Swaging Tool

1. Clamp the DPS / DPS-VR on the VISE steadily.
2. Install the DK-Lok VR Series nut, ferrules onto the tubing.
3. Insert the loose ferrules and loose nut installed tubing end into the DPS / DPS-VR until it is bottomed on the shoulder of the DPS / DPS-VR.
4. Finger-tighten the nut(DN-VR).
5. Scribe the nut at the 6 o'clock position.
6. Wrench-tighten the nut 1-1/4 turns to the 9 o'clock position.
7. Un-thread the nut(DN-VR).
8. Remove the tubing pre-swaged ferrules from the DPS / DPS-VR.
 - In case the tubing is difficult to remove from DPS / DPS-VR, gently rock the tubing back and forth. Do not rotate the tubing.



Assembly on Fitting

1. Insert the ferrule Pre-Swaged tubing into the fitting body Until the front ferrule seats.
2. Assemble by tightening the nut on the body.
3. Assemble by tightening the nut with a wrench.
(At this point, a sharp increase in Torque is felt.)
4. Tighten the nut with a wrench and assemble until the product identification(Red) part of the body is covered.