The newly developed high-pressure solution from UTILIS (up to a maximum of 200 bar or 2900 psi) ensures optimal delivery of coolant to the insert.

The highly compact and robust design and the stainless steel finish are the main features of this

The product range includes several straight and pivoting unions with connection diameters of 4 mm and several guick connections. The use thereof dispenses with the laborious task of unscrewing the high-pressure tubes. This increases efficiency by minimising machine downtime.

The high-pressure hoses are available in a wide variety of lengths with different connections.

Reduction unions, extensions, screw connections, spare parts and coolant distributors round off the product range.

Benefits:

- Flexible enough to be used with all multidec® product lines with internal cooling
- Can be used within a temperature range of -60 to +250 °C or -76 to +482 °F
- Can be used up to a maximum operating pressure of 200 bar or 2900 psi



The range associated with the low-pressure solution for operating pressures up to a maximum of 30 bar or 435 psi includes a straight union and a swivel-type union with a connecting diameter of 4 mm when a polyurethane tube is being used.

As with our high-pressure solution, we offer reduction unions, extensions, closing plugs, and sealing rings. The polyurethane tube with an external diameter of 4 mm is 1000 mm long. This allows you to cut it to the length you need on a case-by-case basis.

A well-balanced range of compact coolant distributors made of light metal completes the offer.

Benefits:

- Flexible enough to be used with all multidec® product lines with internal cooling
- Can be used up to a maximum operating pressure of 30 bar or 435 psi (test pressure of 30 bar
- Corrosion-resistant and compact design



Overview - Coolant system

Connecting options		620
Coolant distributors – high/low pressure		623
Tubes – high pressure		624
Quick change connectors – high pressure		626
Unions – high pressure		630
	_	
Coolant tubes – low pressure		632
Unions – low pressure	UP V	633
Screw connections – high/low pressure		634
Extensions – high/low pressure		635
Reduction unions – high/low pressure		636
	19	
Closing plug – high pressure		637
Closing plug – low pressure		638
Replacement parts – high/low pressure	U I U	639
Nozzle/socket installation		640
STVR/EWR installation	0,0	641

MLU KV ...

□ 623

M5

M5

MSP UHPT ...

□ 624/625

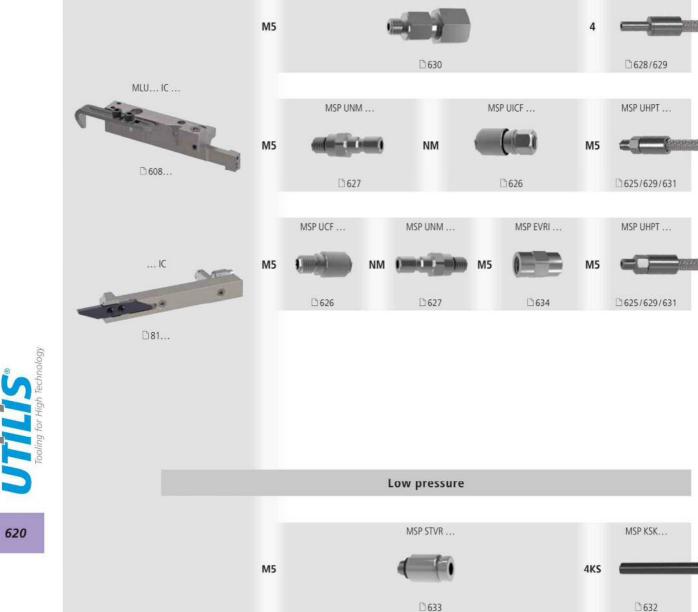
MSP UHPT ...

<u>0</u>624/625

MSP UHPT ..

NM

NM



MSP EVRA ...

□ 634

High pressure

MSP UCF ...

□ 626

M5

MSP UGVR

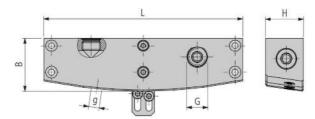
MSP UICF ...

□626









MLU KV ... L (Large)

Order designation	Inputs	Outputs	Dimensions	5		Connecting options	□620/621
	G	g	В	L	Н	M5	G%**
MLU KV 2-3 L	3×G1/8	2×M5	25	35	20		
MLU KV 4-3 L	3×G1/8	4×M5	27	68	20	Kelendle	MCD C1/0
MLU KV 6-3 L	3×G%	6×M5	28	105	20	Miscellaneous	MSP G1/8
MLU KV 8-3 L	3 × G1/8	8×M5	28	138	20		

MLU KV ... S* (Small)

Order designation		Inputs	Outputs	Dimensions			Connecting options	□620/621
		G	g	В	L	Н	M5	G1/8**
MLU KV 2-3 S		3×G1/4	2×M5	25	23	20		
MLU KV 4-3 S		3×G1/8	4×M5	27	45	20	Minnellanana	MSP G1/8
MLU KV 6-3 S		3×G1/8	6×M5	28	65	20	Miscellaneous	M2L 61/8
MLU KV 8-3 5		3×G1/8	8×M5	28	85	20		

^{*} Quick couplings can only be used to a limited extent (less space in this version)

** Screw plugs	□ 637
Replacement parts	₾639







MSP UHPT ... NM-NM (Plug - Plug)

Order designation	Order designation			Connecting options	□ 620/621
		L	1	NM	
		100			
MSP UHPT 100 NM-NM		100	3		
MSP UHPT 150 NM-NM		150	3		
MSP UHPT 200 NM-NM		200	3	MSP UICF	
MSP UHPT 250 NM-NM	_	250	3	MSP UCF	
MSP UHPT 300 NM-NM		300	3	MSP UACF	
MSP UHPT 400 NM-NM		400	3		
MSP UHPT 500 NM-NM		500	3		

No sealing ring required

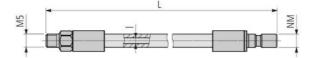
MSP UHPTB* ... NM-NM (Plug – Plug)

Order designation		Dimensions		Connecting options	₾620/621
		L	J	NM	
MSP UHPTB 100 NM-NM		100	3.7		
MSP UHPTB 150 NM-NM		150	3.7		
MSP UHPTB 200 NM-NM		200	3.7	MSP UICF	
MSP UHPTB 250 NM-NM	1	250	3.7	MSP UCF	
MSP UHPTB 300 NM-NM		300	3.7	MSP UACF	
MSP UHPTB 400 NM-NM		400	3.7		
MSP UHPTB 500 NM-NM		500	3.7		

No sealing ring required * B (bigger): for 50 % more coolant passage







MSP UHPT ... M5-NM (External thread-Pug)

Order designation	Dimensions		Connecting options	□ 620/621	
		L	1	M5	NM
MSP UHPT 100 M5-NM		100	3		
MSP UHPT 150 M5-NM		150	3		
MSP UHPT 200 M5-NM		200	3		MSP UICF
MSP UHPT 250 M5-NM		250	3	Miscellaneous	MSP UCF
MSP UHPT 300 M5-NM		300	3		MSP UACF
MSP UHPT 400 M5-NM		400	3		
MSP UHPT 500 M5-NM		500	3		

No sealing ring required

MSP UHPTB* ... M5-NM (External thread-Pug)

Order designation	Dir	Dimensions				Connecting options	□ 620/621
		L	.I			M5	NM
MSP UHPTB 100 M5-NM		100	3.7				
MSP UHPTB 150 M5-NM		150	3.7				
MSP UHPTB 200 M5-NM		200	3.7				MSP UICF
MSP UHPTB 250 M5-NM		250	3.7			Miscellaneous	MSP UCF
MSP UHPTB 300 M5-NM		300	3.7				MSP UACF
MSP UHPTB 400 M5-NM		400	3.7				
MSP UHPTB 500 M5-NM		500	3.7				

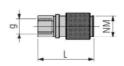
No sealing ring required



^{*} B (bigger): for 50 % more coolant passage



MSP UICF ... (Internal thread-Coupling)

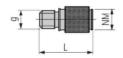


Order designation	Order designation				Connecting options	ing options 🖰 620/621	
		g	L			g	NM
MSP UICF M5		M5	18			Miscellaneous	MSPUNM MSPUSNM MSPUANM

No sealing ring required



MSP UCF ... (External thread-Coupling)



Order designation	Dimensions		Connecting options	□ 620/621	
		g	L	g	NM
MSP UCF M5		M5	21		
MSP UCF M6		M6	21		
MSP UCF M8		M8	19	1.0° 11	MSPUNM
MSP UCF M8x1	1	M8×1	19	Miscellaneous	MSPUSNM MSPUANM
MSP UCF G1/8		G1/8	19		WIST TOWNWI
MSP UCF PT1/8		PT1/8	20		

No sealing ring required



MSP UACF ... (Internal thread 90°-Coupling)



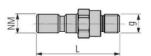
Order designation	Dimensions		Connecting options 🗅 620/6		
		g	L	g	NM
MSP UACF M5	-	M5	20	Miscellaneous	MSPUNM MSPUSNM MSPUANM

No sealing ring required

Closing plug	□ 637
Replacement parts	□ 639



MSP UNM ... (Plug-External thread)

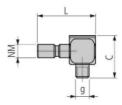


Order designation		Dimensions		Connecting options	□620/621
		g	L	g	NM
MSP UNM M5		M5	19.5		
MSP UNM M6		M6	19.5		
MSP UNM M8		M8	21.5		MSPUICF
MSP UNM M8x1		M8×1	19.5	Miscellaneous	MSP UCF
MSP UNM G1/8		G1/8	22		MSP UACF
MSP UNM PT1/8		PT1/8	20		
MSP UNM UNF5/16		UNF5/16	19.5		

No sealing ring required



MSP USNM ... (90° plug-External thread, swivelling)

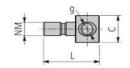


Order designation		Dimensions			Connecting options	□620/621
		g	С	L	g	NM
MSP USNM M5		M5	16	22		
MSP USNM M6		M6	17	22		MSPUICF
MSP USNM M8		M8	17.5	24	Miscellaneous	MSPUCF
MSP USNM M8x1		M8×1	17.5	24		MSPUACF
MSP USNM G1/8		G1/8	20	28		

No sealing ring required



MSP UANM ... (Plug, internal thread $90^\circ)$



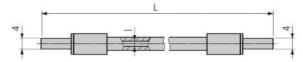
Order designation		Dimensions			Connecting options		
		g	С	L		NM	
MSP UANM M5	•	M5	10	21		Miscellaneous	MSPUICF MSPUCF MSPUACF

No sealing ring required

eplacement	parts	□ 639







MSP UHPT ... 4-4 (Nozzle – Nozzle)

Order designation		Dimensions		Connecting options	₾ 620/621
		L	1	4	
MSP UHPT 100 4-4		100	3		
MSP UHPT 150 4-4		150	3		
MSP UHPT 200 4-4		200	3	1450 1461/0	
MSP UHPT 250 4-4		250	3	MSP UGVR	
MSP UHPT 300 4-4		300	3	MSP USVR	
MSP UHPT 400 4-4		400	3		
MSP UHPT 500 4-4		500	3		

No sealing ring required

MSP UHPTB* ... 4-4 (Nozzle-Nozzle)

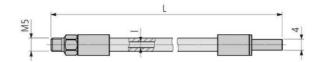
Order designation		Dimensions			Connecting options	₾ 620/621
		L	1		4	
MSP UHPTB 100 4-4		100	3.7			
MSP UHPTB 150 4-4		150	3.7			
MSP UHPTB 200 4-4		200	3.7		MCDITICAD	
MSP UHPTB 250 4-4	1	250	3.7		MSP UGVR MSP USVR	
MSP UHPTB 300 4-4		300	3.7		IVIDE ODVN	
MSP UHPTB 400 4-4		400	3.7			
MSP UHPTB 500 4-4		500	3.7			

Nozzle/socket installation □ 640



No sealing ring required * B (bigger): for 50 % more coolant passage





MSP UHPT ... M5-4 (External thread - Nozzle)

Order designation		Dimensions		Connecting options	□620/621
		L	1	M5	4
MSP UHPT 100 M5-4		100	3		
MSP UHPT 150 M5-4		150	3		
MSP UHPT 200 M5-4		200	3		1165 11616
MSP UHPT 250 M5-4		250	3	Miscellaneous	MSP UGVR
MSP UHPT 300 M5-4		300	3		MSP USVR
MSP UHPT 400 M5-4		400	3		
MSP UHPT 500 M5-4		500	3		

No sealing ring required

MSP UHPTB* ... M5-4 (External thread-Nozzle)

Order designation		Dimensions			Connecting options	□620/621
		L	.1		M5	4
MCD LINDTD 100 MF 4		100	2.7			
MSP UHPTB 100 M5-4		100	3.7			
MSP UHPTB 150 M5-4		150	3.7			
MSP UHPTB 200 M5-4		200	3.7			MCDIICVD
MSP UHPTB 250 M5-4		250	3.7		Miscellaneous	MSP UGVR
MSP UHPTB 300 M5-4		300	3.7			IVIOR UOVN
MSP UHPTB 400 M5-4		400	3.7			
MSP UHPTB 500 M5-4		500	3.7			

No sealing ring required

Nozzle/socket installation

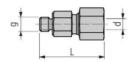
640



^{*} B (bigger): for 50 % more coolant passage



MSP UGVR ... (External thread-External thread)

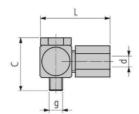


Order designation		Dimensions			Connecting options	<u></u> 620/621
		g	d	L	g	4
MSP UGVR M5-4		M5	4	27		
MSP UGVR G1/8-4				32	Miscellaneous	MSP UHPT4
		G%	4		iviiscenaneous	MOF UNFT4
MSP UGVR PT1/8-4		PT1/s	4	32		

No sealing ring required



MSP USVR ... (External thread 90°, swivelling-Socket)



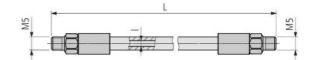
Order designation		Dimensions				Connecting options		20/621	
		g	d	L	С		g	4	
MSP USVR M5-4		M5	4	28	21		X40 - 10	MSP UHPT4	
MSP USVR G1/8-4		G1/a	4	37	30		Miscellaneous	MSP UHP14	

No sealing ring required

Replacement parts	□ 639
Nozzle/socket installation	□ 640







MSP UHPT ... M5-M5 (External thread – External thread)

Order designation	Dimen	sions	(Connecting options	□620/621
	L	1	1	M5	
MSP UHPT 100 M5-M5	■ 10	3.7			
MSP UHPT 150 M5-M5	1 50				
MSP UHPT 200 M5-M5	= 20	3.7			
MSP UHPT 250 M5-M5	■ 25i	3.7		Miscellaneous	
MSP UHPT 300 M5-M5	■ 30	3.7			
MSP UHPT 400 M5-M5	■ 40	3.7			
MSP UHPT 500 M5-M5	= 50	3.7			

No sealing ring required

MSP UHPTB* ... M5-M5 (External thread-External thread)

Order designation	Dimensio	ins	Connecting options	□620/621
	L,	1	M5	
MSP UHPTB 100 M5-M5	■ 100	3.7		
MSP UHPTB 150 M5-M5	■ 150	3.7		
MSP UHPTB 200 M5-M5	■ 200	3.7		
MSP UHPTB 250 M5-M5	■ 250	3.7	Miscellaneous	
MSP UHPTB 300 M5-M5	■ 300	3.7		
MSP UHPTB 400 M5-M5	■ 400	3.7		
MSP UHPTB 500 M5-M5	■ 500	3.7		

No sealing ring required



^{*} B (bigger): for 50 % more coolant passage

maximum 30 bar/435 psi



MSP KSK... (4KS – 4KS)

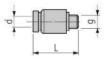
		_
	1	ъ
-	L	-

Order designation	Dimensions			Connecting options	₾ 620/621
	d	L		4KS	
MSP KSK-4KS	4	1000		MSP STVR MSP EWR	

maximum 30 bar/435 psi



MSP STVR ... (KS4-External thread)

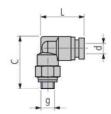


Order designation	Dimensions			Connecting options	□620/621
	d	g	L	KS4	M5
MSP STVR KS4-M5	4	M5	17	MSP KSK	Miscellaneous

Including sealing ring



MSP EWR ... (External thread 90°-KS4)



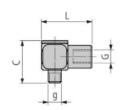
Order designation	Dimensions	;			Connecting options	□620/621
	g	d	L	С	M5	KS4
MSP EWR M5-KS4	M5	4	18	21	Miscellaneous	MSP KSK

Including sealing ring

Closing plug MSP VSK	□ 638
Replacement parts	□ 639
STVR/EWR installation	□ 641





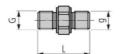


MSP RVRW ... (External thread 90°, swivelling-Internal thread)

Order designation	Dimensions				
	g	G	L	С	
MSP RVRW M5-M5	M5	M5	19	16	

No sealing ring required



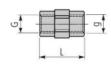


MSP EVRA ... (External thread – External thread)

Order designation	Dimensions					
	G	g	L			
TURBUET AN REIN TURBET ET LEE	 11.01.642					
MSP EVRA M5-M5	M5	M5	14			

No sealing ring required





MSP EVRI ... (Internal thread-Internal thread)

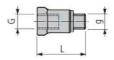
Order designation	Dimensions				
	G	g	L		
MSP EVRI M5-M5	M5	M5	14		

No sealing ring required





MSP VLR ... (Internal thread – External thread)



Order designation	Dimensions					
	G	g	L			
MSP VLR 100 M5-M5	M5	M5	10			
MSP VLR 200 M5-M5	M5	M5	20			
MSP VLR 400 M5-M5	M5	M5	40			

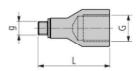
Including sealing ring

Replacement parts 🗀 639





MSP RVRI ... (External thread-Internal thread)

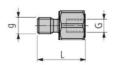


Order designation	Dimension	S				
	g	G	L			
	 	3252				
MSP RVRI 100 M5-M6	M5	M6	15			
MSP RVRI 185 M5-M8x1	M5	M8×1	23			
MSP RVRI 225 M5-M10x1	M5	M10×1	27			
MSP RVRI 225 M5-G1/8	M5	G1/8	27			

Including sealing ring



MSP RVRA ... (External thread-Internal thread)

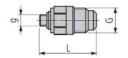


Order designation	Dimensions			
	g	G	L	
MSP RVRA 100 M6-M5	M6	M5	18	
MSP RVRA 70 M8x1-M5	M8×1	M5	15	
MSP RVRA 70 M10x1-M5	M10×1	M5	15	
MSP RVRA 70 G1/8-M5	G1/8	M5	15	

No sealing ring required



MSP RVR ... (External thread – External thread)



Order designation	Dimension	ns		
	g	G	L	
MSP RVR M5-7/16-20 UNF	M5	7/16-20 UNF	29	

Including sealing ring

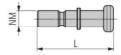
636

Replacement parts

639



MSP VNM (Plug)



Order designation		Dimensions					
		L					NM
MSPVNM	•	23					MSPUICF MSPUCF MSPUACF

No sealing ring required



maximum 30 bar/435 psi



MSP VSK... (4KS)



Order designation	Dimensions			
	d	L		d
MSP VSK-4KS	4	32		MSP STVR MSP EWR

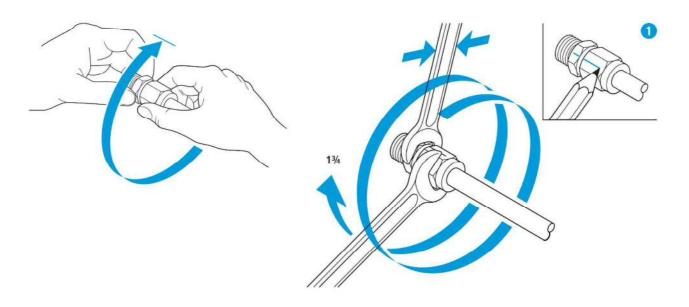
UTTILIS® Tooling for High Technology

llustration	Description	Dimensions	Order designation	related to
0	Sealing ring	5	MSP USK-M5	MSP STVR MSP EWR MSP VR MSP RVRI MSP RVR
Nut fo		4	MSP UCN 4	MSP UGVR M5-4 MSP USVR M5-4
	Nut for clamping ring		MSP UCN 6	MSP UGVR G1/8-4 MSP USVR G1/8-4
			MSP UCN PT1/8	MSP UGVR PT1/8
			MSP UCR 4	MSP UGVR M5-4 MSP USVR M5-4
	Clamping ring for tube connection	4	MSP UCR 6-4	MSP UGVR G1/8-4 MSP USVR G1/8-4
			MSP UCR PT1/8	MSP UGVR PT1/8
		M5	MSP VSR M5 IB2.5	•
	Corony phys	M6×0.5	MSP VSR M6x0.5 IB3	MILLEY
	Screw plug	M8×1	MSP VSR M8x1 IB4	MLU KV
		G¹⁄a	MSP VSR G1/8 IB5	

UTTITS® Tooling for High Technology

Initial assembly

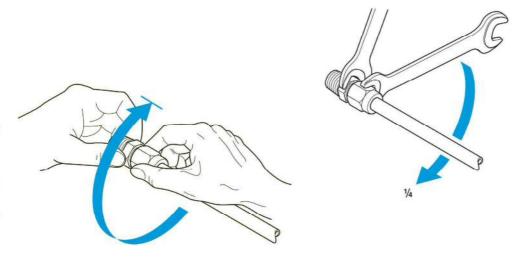
- Screw on the union nut by hand until finger-tight. At the same time, push the tube against the fitting.
- 2. Tighten down the union nut through 13/4 rotations using an open-end wrench.
 - Making a mark will assist in correct rotation. Hold the adaptor with a second wrench to prevent it turning.



Repeat assembly

When refitting the same tube union, screw the union nut back on by hand until finger-tight and tighten down the union nut with an open-end wrench with ¼ of a rotation for the final fit.

In the event of repeat fitting, parts must be lubricated.



STVR/EWR installation Coolant system

Installation of the straight plug connector

- 1. Screw on the straight plug connector by hand until finger-tight.
- With the Allen key, thoroughly tighten the straight plug connector (as shown) through the opening for the connection using the force of your fingers only.



Installation of the swivel-type plug connector

- 1. Screw on the swivel plug connector by hand until finger-tight.
- With an open-end wrench, thoroughly tighten the swivel-type plug connector (as shown) using a normal amount of force.

