

MOBILITY

2024 PRODUCT CATALOG



VDA QUICK CONNECTORS

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VDA QUICK CONNECTORS

In the fast-growing EV market, **performance** and **safety** of **thermal management systems** are increasingly critical.

Efficient and **seamless integration** of **cooling lines** during the vehicle assembly process is thus essential.

EFFICIENT INTEGRATION

We've designed a comprehensive range of VDA compliant Quick Connectors, which are:

- Offered with a wide range of diameters;
- Available in various geometries;
- Compatible with both plastic tubes and rubber hoses.



ERGONOMICS

If your goal is to make integration simpler, choose our VDA Low-Push QCs. Designed to **reduce insertion effort by up to 45%¹** and to increase precision, they enhance productivity, while diminishing musculoskeletal stress.

~ 80 N
Industry standard

VS

44 N
ARaymond VDA Low-Push QC



¹For a standard NW16 QC.

SAFETY

When safety is a top priority, our VDA Low-Push QCs come with a **verifier tab option**. The verifier tab becomes visible when the end piece is correctly inserted, and customizable Data Matrix Codes can also be requested.



INTEGRATED TEMPERATURE SENSORS

Ensuring the **performance** and **safety** of electric vehicles includes rigorous temperature management of the electric powertrain.

That's why we now offer a **range of temperature sensors** that can be assembled with or integrated into our Quick Connectors.

FULLY INTEGRATED temperature sensor

ELBOW temperature sensor

STRAIGHT temperature sensor



INTEGRATED VALVES

To further enhance flow control, safety, and ease-of-assembly, we also offer:

- one-way valves;
 - valves with shut-off functions;
 - bleed screws and drain valves;
- all integrated into our VDA QCs.



ONE-WAY VALVE



CALIBRATED VALVE



SHUT-OFF VALVE



THREADED END PIECES

For the diverse needs of electric system makers, we have a **new range of threaded end pieces**.

They are purposefully designed to be light, leveraging our plastic injection expertise, compatible with standard interfaces and easily serviceable.



LIGHTWEIGHT



FLEX-TO-BOND SOLUTIONS

When end pieces need to be joined to aluminum or other surfaces, **we have leakage-free, coolant-resistant bonding solutions**. They require neither brazing nor welding and can be **customized to specific requirements**.



CUSTOMIZABLE





OUR WIDE RANGE OF VDA QCs

With a variety of **over 200 models** to choose from, our range of VDA QCs encompasses all the necessary **diameters and features** for you to design your **ideal Thermal Management System**.

Our offer is tailored to **optimize** and **secure** the **assembly process**.

Our dedicated teams of engineers



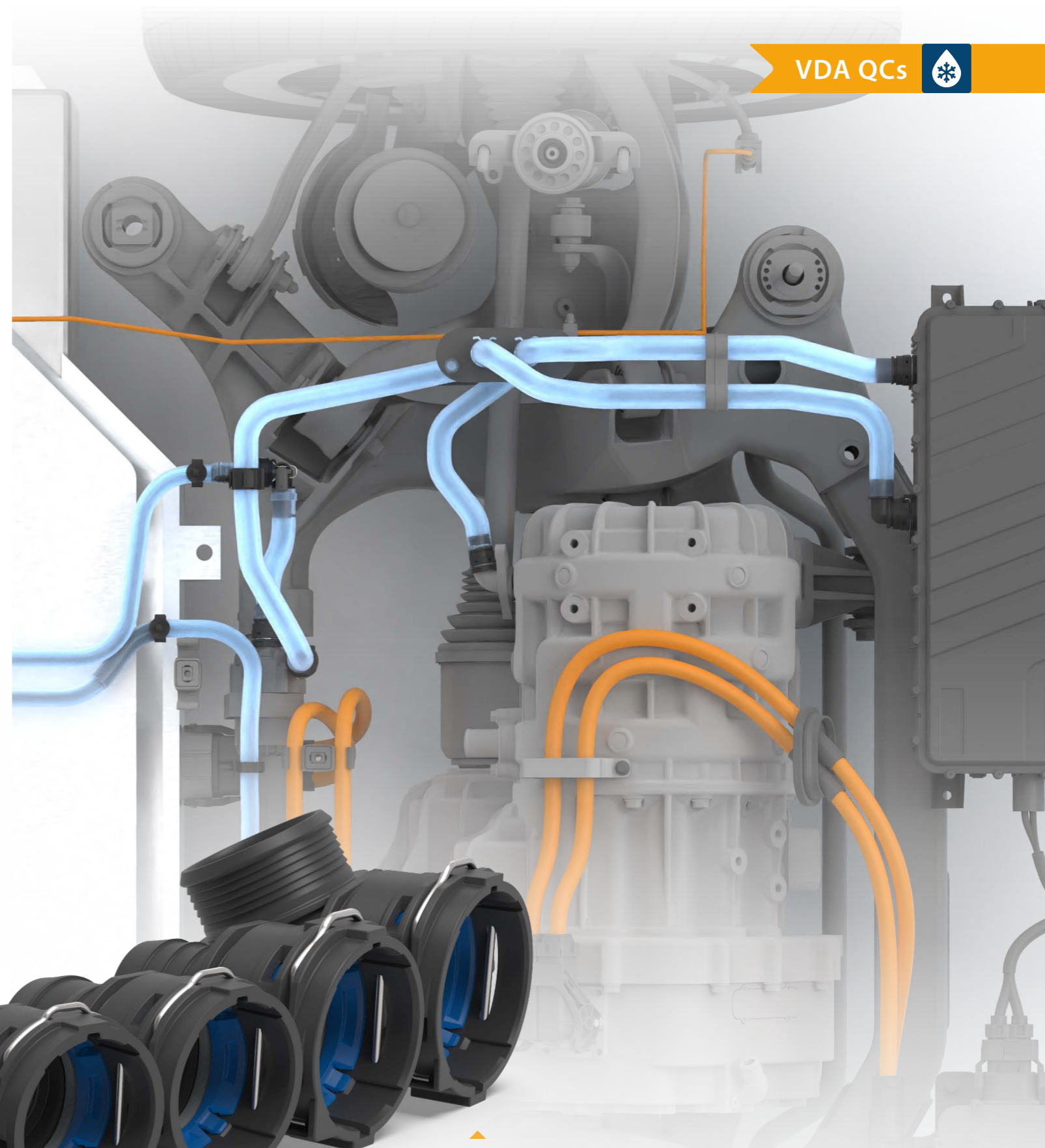
Can customize to your needs
CUSTOM SOLUTIONS



Are present in 25 countries
AROUND THE WORLD



Have over 30 years of leading expertise in fluid handling
WORLDWIDE EXPERT



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To see our full range of products, go to our e-catalog



NW6



LOCKER POSITION

Offered in various rotated positions to facilitate accessibility.



HOSE **GA8** 90° 270°

Hose 6

VDA

NEW TOOL REQUIRED

HOSE **GA7** STRAIGHT **GA4** STRAIGHT **GA5** 41.5° 90° **GA3** 90°

Hose 10

VDA LOW PUSH

VDA BALL VALVE

NEW TOOL REQUIRED

VDA

NEW TOOL REQUIRED

VDA LOW PUSH

GA12 90°

VDA BALL VALVE

NEW TOOL REQUIRED

TUBE **GA14** STRAIGHT **GA1** 41.5° 90° **GA2** 90° **GA13** STRAIGHT

Tube 6x8 or 5/16in

VDA LOW PUSH LASER WELDING

VDA

NEW TOOL REQUIRED

VDA

END PIECE

TUBE **GA6** STRAIGHT **GA9** STRAIGHT **GA10** 41.5° 90° **GA11** 90°

Tube 8x10 or 3/8in

VDA

VDA

NEW TOOL REQUIRED

VDA

NEW TOOL REQUIRED

VDA

NEW TOOL REQUIRED

NW8

HOSE **HA1** STRAIGHT **HA2** 90° **HA3** 90° 90°

Hose 8

VDA LOW PUSH

VDA LOW PUSH

VDA

NEW TOOL REQUIRED

TUBE **HA4** STRAIGHT 147°

Tube 8x10 or 3/8in

VDA LOW PUSH TEMPERATURE SENSOR

TUBE **HA5** 90°

Tube 10x12

VDA LOW PUSH

TUBE **HA6** 45°

Tube 14x16 or 5/8in

VDA LOW PUSH

HOSE	JA31 90°			
	 <p>VDA</p> <p>NEW TOOL REQUIRED</p>			
HOSE	JA2 STRAIGHT	JA32 STRAIGHT 270°	JA19 20° 270°	JA17 40° 270°
	 <p>VDA LOW PUSH</p>	 <p>VDA LOW PUSH TEMPERATURE SENSOR</p>	 <p>VDA</p> <p>NEW TOOL REQUIRED</p>	 <p>VDA</p> <p>NEW TOOL REQUIRED</p>
	JA18 40° 305°	JA7 45°	JA25 45° 180°	JA16 60° 315°
	 <p>VDA</p> <p>NEW TOOL REQUIRED</p>	 <p>VDA LOW PUSH</p>	 <p>VDA</p> <p>NEW TOOL REQUIRED</p>	 <p>VDA</p> <p>NEW TOOL REQUIRED</p>
JA15 70°	JA5 90°	JA8 90° 90°	JA14 90° 97°	
 <p>VDA</p>	 <p>VDA</p> <p>NEW TOOL REQUIRED</p>	 <p>VDA</p> <p>NEW TOOL REQUIRED</p>	 <p>VDA</p> <p>NEW TOOL REQUIRED</p>	
JA12 90° 105°	JA6 90° 126.5°	JA13 90° 180°	JA4 90° 270°	
 <p>VDA</p> <p>NEW TOOL REQUIRED</p>	 <p>VDA</p>	 <p>VDA</p> <p>NEW TOOL REQUIRED</p>	 <p>VDA</p> <p>NEW TOOL REQUIRED</p>	

HOSE	JA28 STRAIGHT		
	 <p>END PIECE</p>		
HOSE	JA26 STRAIGHT		
	 <p>VDA LOW PUSH</p>		
TUBE	JA9 STRAIGHT	JA11 45°	JA10 90°
	 <p>VDA LOW PUSH</p>	 <p>VDA</p>	 <p>VDA</p>
	JA23 90°	JA24 3 WAY 90°	
 <p>VDA LOW PUSH</p>	 <p>VDA LOW PUSH</p>		
TUBE	JA29 STRAIGHT	JA30 45° 270°	
	 <p>VDA LOW PUSH & VERIFIER</p>	 <p>VDA LOW PUSH & VERIFIER</p>	

NW12

TUBE	JA20 STRAIGHT	JA21 90°
Tube 16.5x18.5	 VDA LOW PUSH	 VDA LOW PUSH
END PIECE	JA22 STRAIGHT	
M18x1.5	 END PIECE THREADED	
END CAP	JA27	
	 VDA END CAP	

NW14 (17.50)



















HOSE	MA2 STRAIGHT		
Hose 20	 VDA		
TUBE	MA1 STRAIGHT	MA14 30°	MA3 90°
Tube 14x16 or 5/8in	 VDA	 VDA NEW TOOL REQUIRED	 VDA
END PIECE	MA6 STRAIGHT		
M18x1.5	 END PIECE THREADED		

Hose 8	HOSE NB32 3 WAY 270°  VDA NEW TOOL REQUIRED			
	HOSE NB51 STRAIGHT  VDA LOW PUSH		HOSE NB30 15° 140°  VDA NEW TOOL REQUIRED	
Hose 12	HOSE NB36 45°  VDA		HOSE NB37 3 WAY 187°  VDA NEW TOOL REQUIRED	
	HOSE NB93 25° 180°  VDA LOW PUSH TEMPERATURE SENSOR			
Hose 14	HOSE NB1 STRAIGHT  VDA LOW PUSH			
	HOSE NB94 STRAIGHT 270°  VDA LOW PUSH TEMPERATURE SENSOR		HOSE NB38 STRAIGHT  VDA BLEED SCREW NEW TOOL REQUIRED	
Hose 16	HOSE NB42 35° 270°  VDA			
	HOSE NB8 45°  VDA LOW PUSH		HOSE NB71 45°  VDA LOW PUSH TEMPERATURE SENSOR	
	HOSE NB58 45° 45°  VDA NEW TOOL REQUIRED		HOSE NB57 45° 90°  VDA LOW PUSH NEW TOOL REQUIRED	

HOSE NB27 45° 140°  VDA		HOSE NB7 45° 180°  VDA LOW PUSH		HOSE NB28 80° 312°  VDA		HOSE NB61 90°  VDA LOW PUSH BALL VALVE	
HOSE NB19 90°  VDA LOW PUSH		HOSE NB63 90° 15°  VDA LOW PUSH		HOSE NB12 90° 90°  VDA LOW PUSH		HOSE NB41 90° 162°  VDA NEW TOOL REQUIRED	
HOSE NB92 90° 180°  VDA LOW PUSH		HOSE NB95 90° 270°  VDA LOW PUSH		HOSE NB25 90° 270°  VDA		HOSE NB31 90° 246°  VDA BLEED SCREW NEW TOOL REQUIRED	
HOSE NB40 90° 116.5°  VDA BLEED SCREW NEW TOOL REQUIRED		HOSE NB96 3 WAY  VDA WITH MALE END FORM NEW TOOL REQUIRED		HOSE NB39 3 WAY 90°  VDA NEW TOOL REQUIRED		HOSE NB23 3 WAY 270°  VDA	
HOSE NB43 3 WAY 270°  VDA WITH MALE END FORM NEW TOOL REQUIRED		HOSE NB50 3 WAY 327°  VDA NEW TOOL REQUIRED		HOSE NB20 STRAIGHT  END PIECE		HOSE NB52 STRAIGHT  END PIECE	

Hose 18	HOSE NB2 STRAIGHT	NB4 90° 270° NEW TOOL REQUIRED	NB5 90° 270° NEW TOOL REQUIRED	
				
	VDA ANTI TWIST	VDA ANTI TWIST	VDA	
Hose 19	HOSE NB66 STRAIGHT	NB72 STRAIGHT NEW TOOL REQUIRED	NB98 STRAIGHT	NB65 30° 90°
				
	VDA LOW PUSH	VDA LOW PUSH TEMPERATURE SENSOR	VDA LOW PUSH TEMPERATURE SENSOR	VDA LOW PUSH TEMPERATURE SENSOR
	NB67 45°	NB73 55° 270°	NB68 90°	NB69 3 WAY 180°
				
VDA LOW PUSH	VDA LOW PUSH TEMPERATURE SENSOR	VDA LOW PUSH	VDA LOW PUSH	
Hose 20	HOSE NB16 90°	NB97 3 WAY	NB99 3 WAY	NB44 3 WAY 135° NEW TOOL REQUIRED
				
	VDA LOW PUSH	VDA	VDA LOW PUSH	VDA
	NB17 3 WAY 180°	NB45 3 WAY 270°	NB47 4 WAY 90°	
				
VDA	VDA	VDA		

Hose 22	HOSE NB26 3 WAY 315°			
		VDA		
Tube 14x16 or 5/8in	TUBE NB80 STRAIGHT	NB81 60°		
				
	VDA LOW PUSH	VDA LOW PUSH		
Tube 15x18	TUBE NB82 90°			
		VDA LOW PUSH BLEED SCREW		
Tube 16x18 or 3/4in	TUBE NB74 STRAIGHT	NB75 45°	NB78 45° 90°	NB76 45° 180°
				
	VDA LOW PUSH & VERIFIER	VDA LOW PUSH & VERIFIER	VDA LOW PUSH & VERIFIER	VDA LOW PUSH & VERIFIER
	NB79 45° 270°	NB35 55° 240°	NB34 90°	NB77 90° 180°
				
VDA LOW PUSH & VERIFIER	VDA	VDA LOW PUSH & VERIFIER	VDA LOW PUSH & VERIFIER	

	NB83 90° 225°	NB84 90° 270°	NB29 STRAIGHT	
				NEW TOOL REQUIRED
	VDA LOW PUSH & VERIFIER	VDA LOW PUSH & VERIFIER	END PIECE	
Tube 16.5x18.5	NB14 STRAIGHT	NB59 37° 270°	NB46 45°	NB55 45° 60°
				
	VDA	VDA LOW PUSH	VDA	VDA LOW PUSH
	NB56 45° 140°	NB18 90°	NB24 90°	NB64 90° 90°
				
VDA LOW PUSH	VDA	VDA	VDA LOW PUSH	
NB62 90° 130°	NB70 90° 225°	NB49 90° 270°	NB60 3 WAY	
				
VDA LOW PUSH	VDA LOW PUSH	VDA	VDA LOW PUSH	
NB54 STRAIGHT	NB85 STRAIGHT	NB53 3 WAY		
				
END PIECE	END PIECE	END PIECE		

	TUBE NB86 STRAIGHT		
Tube 18x21			
	VDA LOW PUSH LASER WELDING		
	TUBE NB90 STRAIGHT	NB91 90°	
Tube 19x22			
	VDA LOW PUSH	VDA LOW PUSH	
	TUBE NB87 STRAIGHT	NB88 45°	NB89 90° 180°
Tube 20x23			
	VDA LOW PUSH & VERIFIER	VDA LOW PUSH & VERIFIER	VDA LOW PUSH & VERIFIER
	TUBE NB100 STRAIGHT		
Tube 21x24			
	VDA LOW PUSH		
	END PIECE NB48 STRAIGHT		
M20x1.5			
	END PIECE THREADED		

NW18

TUBE	PB12 3 WAY	PB9 90°		
Tube 16.5x18.5	 VDA LOW PUSH	 END PIECE		
TUBE	PB1 STRAIGHT	PB4 STRAIGHT	PB2 60°	PB3 90°
Tube 19x22	 VDA LOW PUSH	 VDA LOW PUSH TEMPERATURE SENSOR	 VDA LOW PUSH	 VDA LOW PUSH
TUBE	PB5 STRAIGHT	PB6 STRAIGHT	PB7 90°	PB8 110°
	 END PIECE	 END PIECE	 END PIECE	 END PIECE
TUBE	PB10 15°	PB11 95°		
Tube 24x27	 END PIECE	 END PIECE		

NW20


















HOSE	XA14 3 WAY					
Hose 16	 VDA NEW TOOL REQUIRED					
HOSE	XA2 STRAIGHT	XA13 90°	XA1 STRAIGHT	XA7 STRAIGHT		
Hose 20	 VDA LOW PUSH	 VDA LOW PUSH	 END PIECE	 END PIECE		
TUBE	XA8 STRAIGHT	XA9 45°	90°	XA10 45°	270°	XA11 90°
Tube 16x18 or 3/4in	 VDA LOW PUSH & VERIFIER	 VDA LOW PUSH & VERIFIER	 VDA LOW PUSH & VERIFIER	 VDA LOW PUSH & VERIFIER	 VDA LOW PUSH & VERIFIER	
TUBE	XA12 90°	270°				
	 VDA LOW PUSH & VERIFIER					
TUBE	XA3 STRAIGHT	XA5 45°	XA4 3 WAY	90°	XA6 3 WAY	270°
Tube 16.5x18.5	 VDA	 VDA	 VDA	 NEW TOOL REQUIRED	 VDA WITH MALE END FORM	 NEW TOOL REQUIRED

NW22

HOSE	XB4 STRAIGHT	
Hose 26		
	END PIECE	
TUBE	XB3 STRAIGHT	
Tube 19x22		
	END PIECE	
TUBE	XB1 STRAIGHT	XB2 STRAIGHT
Tube 24x27		
	VDA LOW PUSH TEMPERATURE SENSOR	END PIECE
TUBE	XB5 STRAIGHT	XB6 90°
Tube 25x29		
	VDA LOW PUSH	VDA LOW PUSH

NW26

HOSE	XP1 STRAIGHT	XP4 60°	170°	XP9 90°	XP10 90°	90°
Hose 26						
	VDA	VDA LOW PUSH		VDA LOW PUSH	VDA LOW PUSH	
TUBE	XP7 STRAIGHT					
						
	END PIECE					
HOSE	XP3 60°					
Hose 32		NEW TOOL REQUIRED				
	VDA					
TUBE	XP2 STRAIGHT	XP5 90°	XP8 STRAIGHT			
Tube 25x29						
	VDA LOW PUSH	VDA	END PIECE			

Hose 28	HOSE	OB14 90° 60°	OB10 60° 180°	OB11 90° 180°	
					
		VDA	VDA	VDA	
Hose 32	HOSE	OB2 STRAIGHT	OB19 13° 270°	OB8 30° 90°	OB15 30° 165°
					
		VDA LOW PUSH	VDA LOW PUSH	VDA	VDA
				NEW TOOL REQUIRED	NEW TOOL REQUIRED
		OB5 41° 270°	OB9 65°	OB16 65° 170°	OB17 90°
					
		VDA	VDA	VDA LOW PUSH	VDA LOW PUSH
		OB13 90°	OB12 90° 180°	OB18 90° 205°	OB7 3 WAY 200°
					
	VDA BLEED SCREW	VDA	VDA LOW PUSH	VDA	
	OB23 3 WAY	OB6 4 WAY 345°			
					
	VDA	VDA			

Hose 36	HOSE	OB24 45° 180°	
			
		NEW TOOL REQUIRED	
Tube 25x29	TUBE	OB20 STRAIGHT	
			
		END PIECE	
Tube 32x35	TUBE	OB21 STRAIGHT	OB22 90°
			
		VDA LOW PUSH	VDA LOW PUSH

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