

Colson X-Cel Ltd have extensive knowledge and experience in small bore needle and manifold valve technology. The instrument range of needle valves and manifolds have an extensive reference list in a multitude of applications having served an array of industries worldwide for the over 25 years. Colson X-Cel Ltd design, machine, assemble, test and quality assure all products in house at the Advanced Manufacturing Park in the UK.

The range is a quality engineered and high pressure valve rated up to 10,000 psi. The needle valve and manifold range is designed with a heavy-duty screwed needle valve which achieves a metal to metal, bubble tight seal. The range is manufactured in bar stock materials certified to NACE. Available in sizes from 1/4" to 1/2" and with screwed NPT threads as standard.

TECHNICAL DATA	DESIGN FEATURES
Materials:	High Pressure design rated to 10,000psi
316 Stainless Steel—A479 UNS S31600	Designed to MSS-SP-99
Inlet Connection:	Tested to API 598—Leakage Rate A
1/4" - 1" NPT Female	Full material traceability
Outlet Connection:	Panel Mount
1/4" - 1" NPT Female	Female NPT connections (1/4" - 1")
Pressure Rating:	Low operating torque
6,000psi (As Std)	Internally loaded blowout proof stem
Operating Temperature Range:	Lockable available*
-46°C to 200°C (-51°F to 392°F)	Other connection types available*
Bore Sizes: 5mm	Exotic materials available* *Contact Sales Department

Colson X-Cel Ltd R-evolution @ the AMP Unit 3 Brindley Way Rotherham S60 5FS

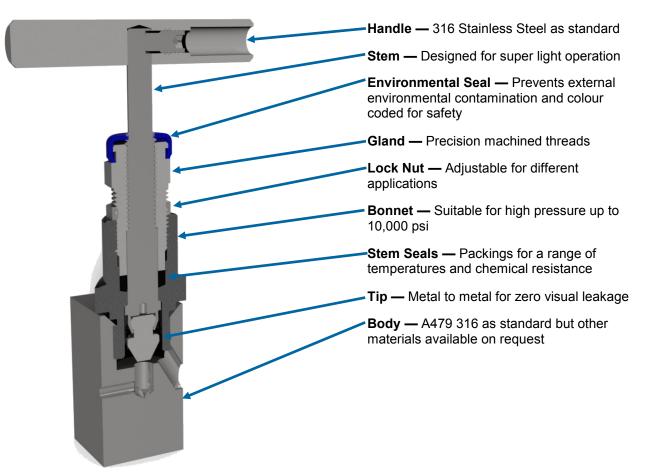
Phone: +44 (0) 114 243 2898 *E-mail: sales@colson.co.uk



Colson X-Cel Needle Design

High Pressure 5mm Needle Valve

The 5mm bore high pressure needle valve can be supplied to suit a whole range of applications. A low operating torque is achieved using a super finished stem and bonnet packed with low friction PTFE and graphite seals that provide a leak tight seal.



Item	Description	Material
1	Handle	UNS S31600
2	Bonnet	A479 - UNS S31600
3	Gland	A479 - UNS S31600
4	Gland Follower	A479 - UNS S31600
5	Seal	PTFE
6	Locknut	UNS S31600
7	Stem/Tip	A479 - UNS S31600
8	Dust Cap	PVC
9	Grub Screw	UNS S31600

Needle Valve Components

Colson X-Cel Ltd R-evolution @ the AMP Unit 3 Brindley Way Rotherham S60 5FS

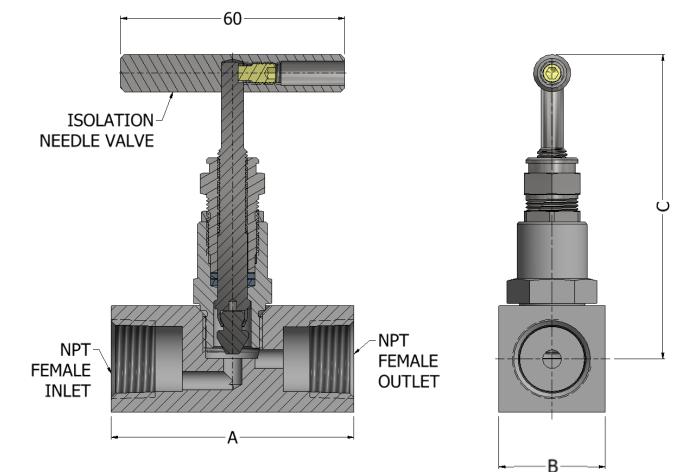
Phone: +44 (0) 114 243 2898 E-mail: sales@colson.co.uk



N Series Female x Female High Pressure Needle Valves

N Series Weights and Dimensions

The N series single needle valve has a heavy duty screwed bonnet and a two piece stem to ensure super light torque



N Series Range

				een een ange				
Part Number	Connection Size (NPT)	Bore	Face to Face (A)	Body Size (B)	Handle Height (C)	Handle Length	Weight	Pressure
N08NFS	1/4"	5mm	52mm	25.4mm	80mm	60mm	0.4kg	10,000psi
N10NFS	3/8"	5mm	50mm	25.4mm	80mm	60mm	0.3kg	10,000psi
N15NFS	1/2"	5mm	60mm	28.5mm	80mm	60mm	0.4kg	10,000psi
N20NFS	3/4"	5mm	70mm	38.1mm	80mm	60mm	0.9kg	6,000psi^
N25NFS	1"	8mm	75mm	44.5mm	80mm	60mm	1.2kg	6,000psi^
Colson X-Cel					^ Pressur	re down-rated	due to conn	ection threads
-	R-evolution @ the AMP APPLICATIONS Unit 3 Brindley Way • Gauge Isolation			ion	APPLICA ⁻ ● Wa	TIONS iste Water Tre	atment Syste	ems
S60 5FS		•	Lube Oil Sys	Oil, Water and Sand Separation System			on Systems	
			ol Injection Pack	- • Pro	duced Water	Treatment P	ackages	
Phone: +44	4 (0) 114 243 2898		ages	 Pur 	Pump Packages			

E-mail: sales@colson.co.uk

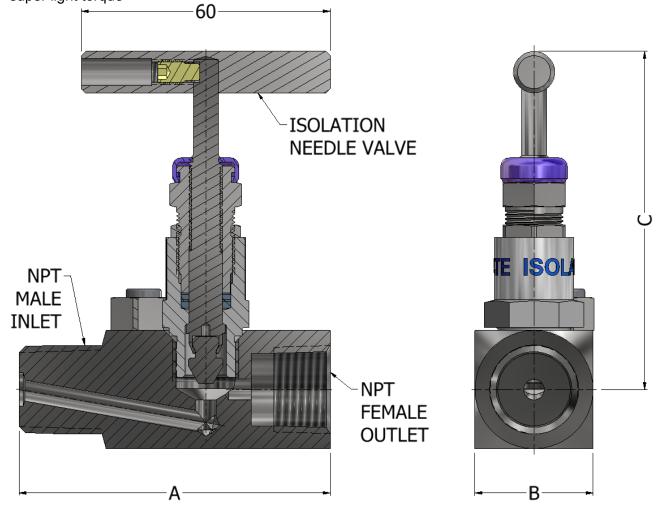


N Series Male x Female High Pressure

Needle Valves

NM Series Weights and Dimensions

The NS series needle valve has a heavy duty screwed bonnet and a two piece stem to ensure super light torque



NM Series Range

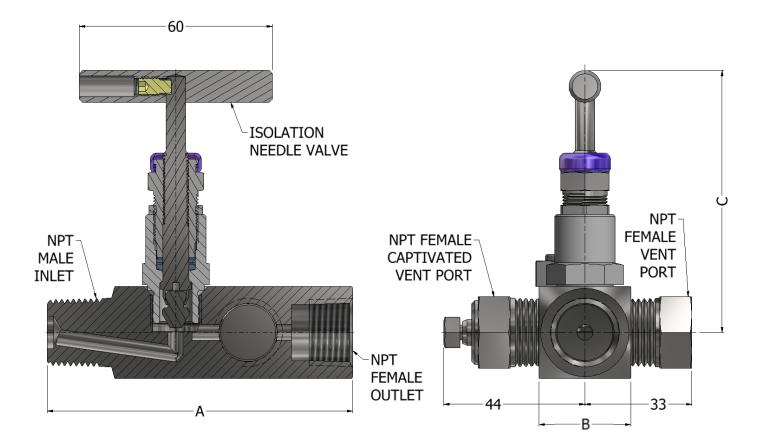
Part Number	Connection Size (NPT)	Bore	Face to Face (A)	Body Size (B)	Handle Height (C)	Handle Length	Weight	Pressure
N08NM08NFS N15NM15NFS	1/4" 1/2"	5mm 5mm	60mm 75mm	25.4mm 28.5mm	80mm 82mm	60mm 60mm	0.32kg 0.50kg	10,000psi 10,000psi
Colson X-Cel Ltd R-evolution @ the Unit 3 Brindley Wa Rotherham S60 5FS Phone: +44 (0) 114 E-mail: sales@cols	y I 243 2898	LubMe⁻	FIONS uge Isolation be Oil Systems thanol Injection P emical Distributio	e Packages	Oil, Water Produced	ater Treatme and Sand S Water Trea skages	Separation	Systems



G Series High Pressure Gauge Valve

G Series Weights and Dimensions

The G series multiport gauge valve is suitable for mounting pressure gauges or transmitters



G Series Range

Part Number	Connection Size (NPT)	Bore	Face to Face (A)	Body Size (B)	Handle Height (C)	Handle Length	Weight	Pressure
G15NM15NFS	1/2"	5mm	95mm	28.5mm	82mm	60mm	0.7kg	10,000psi

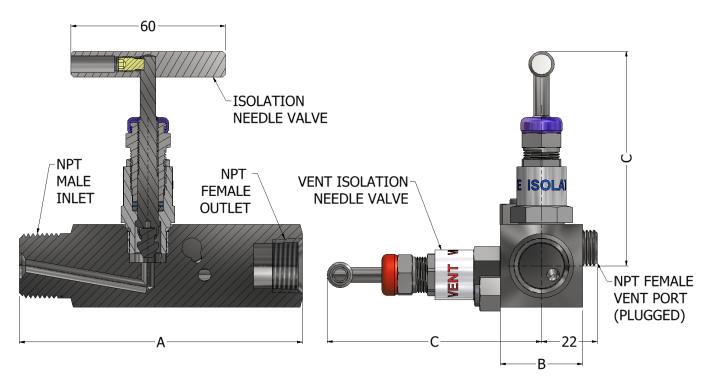
Colson X-Cel Ltd			
R-evolution @ the AMP Unit 3 Brindley Way	APPLICATIONS Gauge Isolation	APPLICATIONS Waste Water Treatment Systems	
Rotherham	5		
S60 5FS	Lube Oil Systems	Oil, Water and Sand Separation Syst	tems
Phone: +44 (0) 114 243 2898	Methanol Injection Packages	Produced Water Treatment Package	S
E-mail: sales@colson.co.uk	Chemical Distribution Panels	Pump Packages	
-			



21 Inline Series High Pressure 2 Valve Manifold

2I Series Weights and Dimensions

The 2I series manifold is a single process isolation and controlled vent for safe working conditions when calibrating a gauge or transmitter



	2I Series Range							
Part Number	Connection Size (NPT)	Bore	Face to Face (A)	Body Size (B)	Handle Height (C)	Handle Length	Weight	Pressure
2I15NM15NFS	1/2"	5mm	110mm	32mm	83mm	60mm	0.9kg	10,000psi

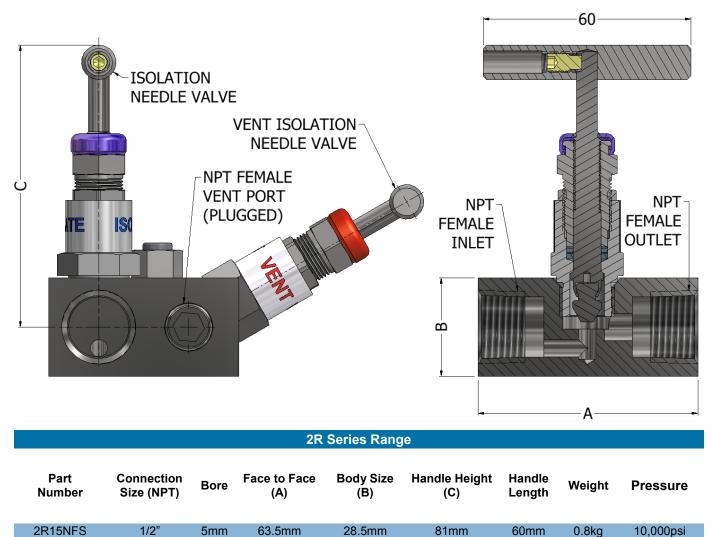
Colson X-Cel Ltd		
R-evolution @ the AMP	APPLICATIONS	APPLICATIONS
Unit 3 Brindley Way	Gauge Isolation	Waste Water Treatment Systems
Rotherham S60 5FS	Lube Oil Systems	Oil, Water and Sand Separation Systems
Phone: +44 (0) 114 243 2898	Methanol Injection Packages	Produced Water Treatment Packages
E-mail: sales@colson.co.uk	Chemical Distribution Panels	Pump Packages



2R Remote Series High Pressure 2 Valve Manifold

2R Series Weights and Dimensions

The 2R series manifold is a single process isolation and controlled vent for safe working conditions when calibrating a gauge or transmitter



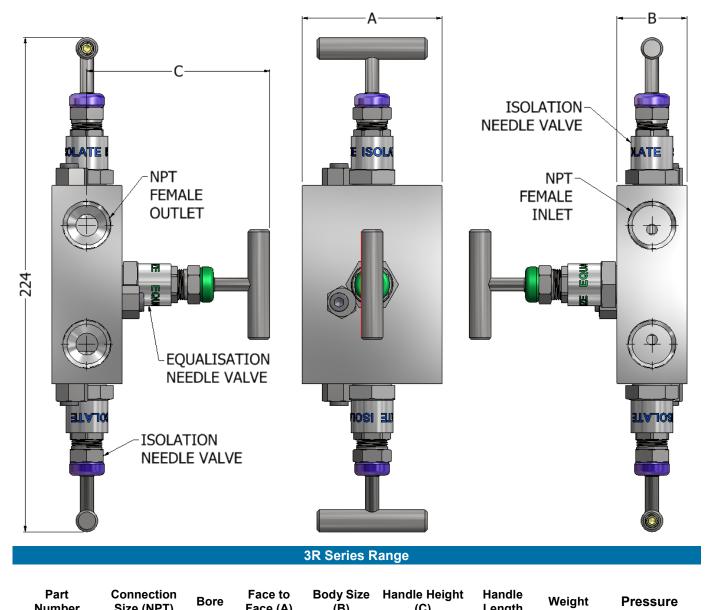
Colson X-Cel Ltd		
R-evolution @ the AMP	APPLICATIONS	APPLICATIONS
Unit 3 Brindley Way	Gauge Isolation	Waste Water Treatment Systems
Rotherham S60 5FS	Lube Oil Systems	Oil, Water and Sand Separation Systems
Phone: +44 (0) 114 243 2898	Methanol Injection Packages	Produced Water Treatment Packages
E-mail: sales@colson.co.uk	Chemical Distribution Panels	Pump Packages



3R Series High Pressure Needle Valves

3R Series Weights and Dimensions

The 3R series is a remote mount manifold suitable for pressure transmitters and static instrument isolation. The 3R series has two process isolations and one equalisation.



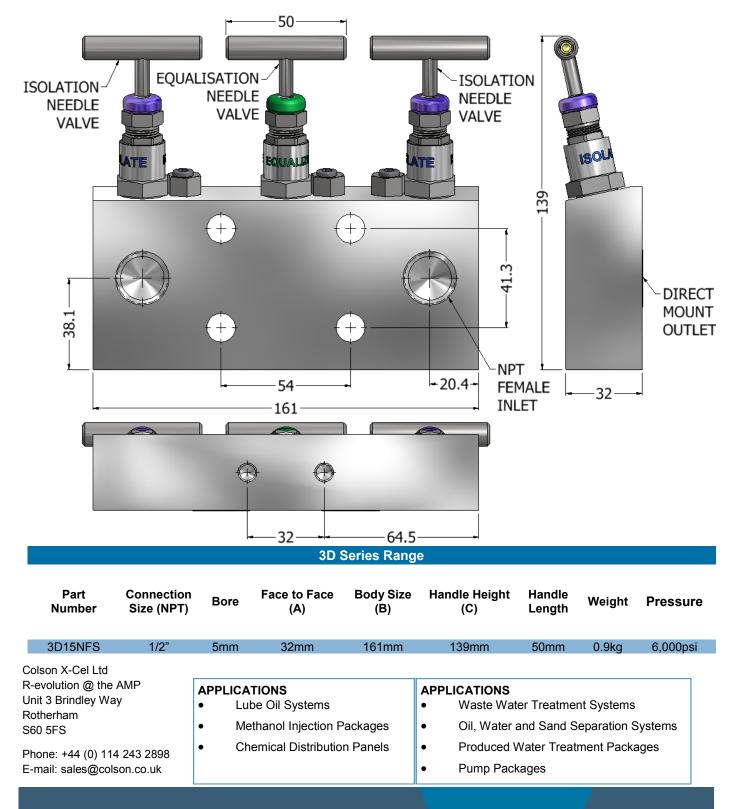
Number Size (NPT)	Face (A)	(B)	(C)	Length	Ū	
3R15NFS 1/2"	5mm	63.5mm	32mm	83mm	60mm	0.9kg	6,000psi
Colson X-Cel Ltd R-evolution @ the AMP Unit 3 Brindley Way Rotherham S60 5FS	• Me	be Oil System ethanol Injecti	on Packages	• Oil,	ste Water Trea	and Separation	on Systems
Phone: +44 (0) 114 243 2898 E-mail: sales@colson.co.uk	• Cł	nemical Distrik	oution Panels		oduced Water ⁻ mp Packages	Treatment Pa	ackages



3D Series High Pressure Needle Valves

3D Series Weights and Dimensions

The 3D series is a direct mount manifold suitable for pressure transmitters and static instrument isolation. The 3D series has two process isolations and one equalisation.

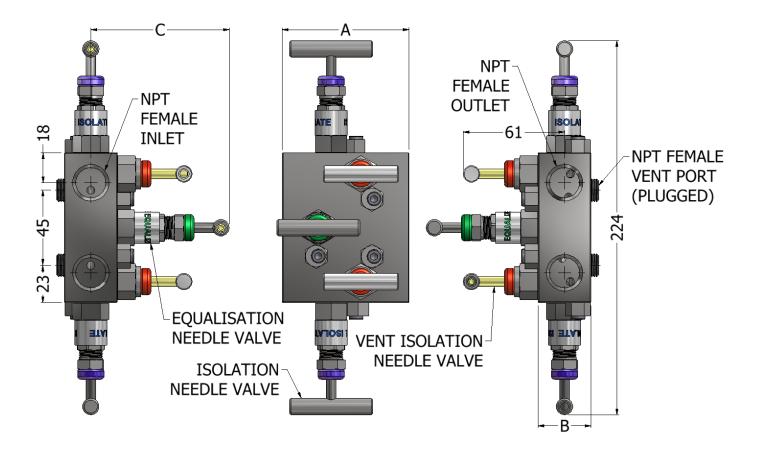




5R Series High Pressure Needle Valves

5R Series Weights and Dimensions

The 5R series is a remote mount manifold suitable for pressure transmitters and static instrument isolation. The 5R series has two process isolations, two vents and one equalise.



5R Series Range

Part Number	Connection Size (NPT)	Bore	Face to Face (A)	Body Size (B)	Handle Height (C)	Handle Length	Weight	Pressure
5R15NFS	1/2"	5mm	76.2mm	32mm	83mm	60mm	0.9kg	6,000psi

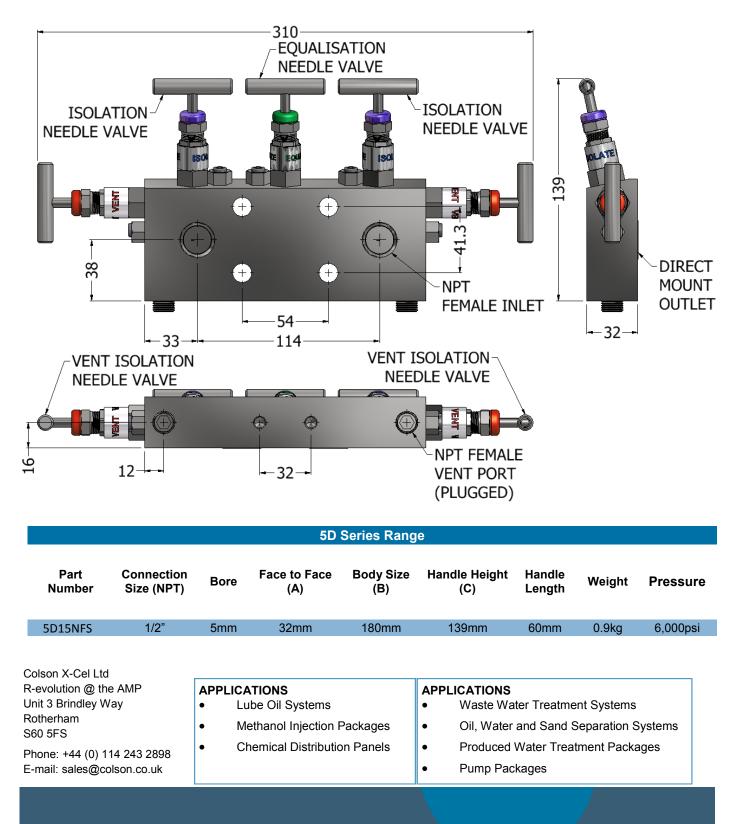
E-mail: sales@colson.co.uk Pump Packages	Colson X-Cel Ltd R-evolution @ the AMP Unit 3 Brindley Way Rotherham S60 5FS Phone: +44 (0) 114 243 2898	 APPLICATIONS Lube Oil Systems Methanol Injection Packages Chemical Distribution Panels 	 APPLICATIONS Waste Water Treatment Systems Oil, Water and Sand Separation Systems Produced Water Treatment Packages
	E-mail: sales@colson.co.uk		Pump Packages



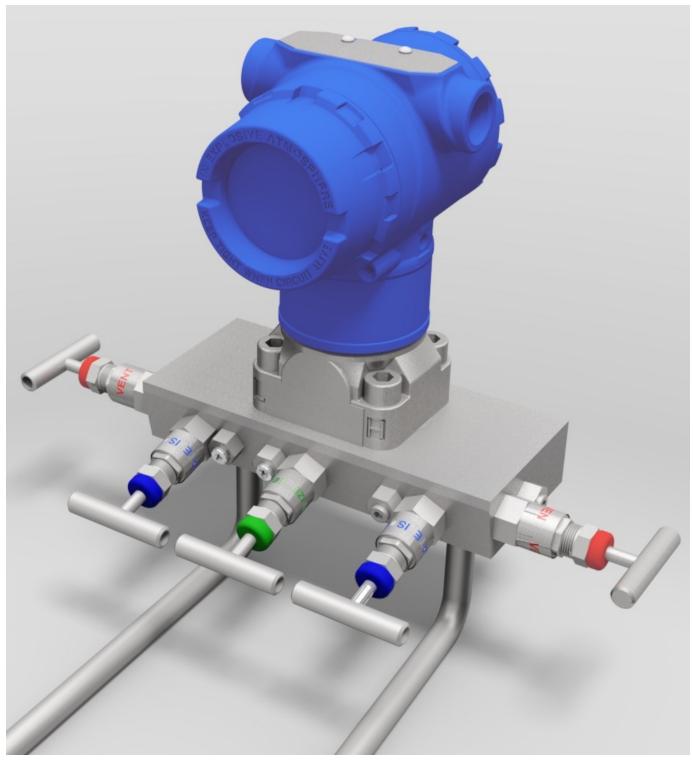
5D Series High Pressure Needle Valves

5D Series Weights and Dimensions

The 5D series is a direct mount manifold suitable for pressure transmitters and static instrument isolation. The 5D series has two process isolations, two vents and one equalisation.







Colson X-Cel Ltd R-evolution @ the AMP Unit 3 Brindley Way Rotherham

Phone: +44 (0) 114 243 2898 E-mail: sales@colson.co.uk