

Фланцевые фитинги, зажимы, трубки, клапаны, переходники для шлангов, уплотнительные кольца, колена, крестовые части, тройники, переходники

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Technical data

Operating pressure range (absolute)	Minimum	Maximum
Products are designed for vacuum applications however some will withstand a small over-pressure, this is indicated in the table below where appropriate		
"C" clamp and centring ring	10 ⁻⁷ mbar	1 bar
Stainless steel clamping ring and Co-seal	10 ⁻⁷ mbar	10 bar
Stainless steel clamp and metal seal	10 ⁻⁸ mbar	3 bar
Stainless steel clamp and Co-seal (all sizes)	10 ⁻⁷ mbar	10 bar
Polymer and aluminium clamps and Co-seal	10 ⁻⁷ mbar	10 bar
NW10 to NW25	10 ⁻⁷ mbar	10 bar
NW40 to NW50	10 ⁻⁷ mbar	10 bar
NW trapped O ring	10 ⁻⁷ mbar	10 bar
ISO trapped O ring	10 ⁻⁷ mbar	1 bar
O ring and centring ring (vacuum use only)	10 ⁻⁷ mbar	1 bar
Bellows	10 ⁻⁷ mbar	1 bar
Flexible pipelines ⁽¹⁾	10 ⁻⁷ mbar	1.5 bar
Braided flexible pipelines ⁽¹⁾	10 ⁻⁷ mbar	10 bar

(1) Depends on size

Operating temperature	
Polymer Co-seal	-10 to 80 °C
Aluminium Co-seal and nitrile seal	-10 to 100 °C
Aluminium Co-seal and fluoroelastomer seal	-10 to 150 °C
Polymer centring ring and nitrile O ring	-10 to 100 °C
Polymer centring ring and fluoroelastomer seal	-10 to 125 °C
Nitrile O ring	-10 to 100 °C
Fluoroelastomer O ring	-10 to 150 °C
Polymer clamp	-10 to 100 °C
Stainless steel clamping ring	-10 to 125 °C
Aluminium swing/hinge clamp	-10 to 200 °C
Stainless steel clamp	-10 to 200 °C

The maximum temperature for continuous operation with fluoroelastomer is 150 °C. It may be intermittently baked at 200 °C.

Stainless steel equivalents		
AISI number	DIN standard	Composition
304L	1.4306	X2 CrNi 19 10
316L	1.4404	X2 CrNiMo 17 13 2

Chemical resistance

Material	Generally resistant to:	Generally attacked by:
Nitrile Butadiene Acrylonitrile copolymer	Many hydrocarbons fats, oils greases, hydraulic fluids	Ozone, ketones, esters, aldehydes, chlorinated and nitro hydrocarbons
Neoprene Chloroprene polymer	Moderate chemicals and acids, ozone, oily fats, greases, many oils and solvents	Strong oxidizing acids and esters, ketones, chlorinated aromatic and nitro hydrocarbons
Fluoroelastomer Fluorocarbon polymer	All aliphatic, aromatic and halogenated hydrocarbons, acids, animal and vegetable fats	Ketones, low molecular weight esters and nitro containing compounds
Aluminium	Organic acids, fatty acids, freons, nitric acid	Strong acids, alkalis chlorinated solvents, mercury
Stainless Steel	Organic acids, alkalis, nitric acid. Sulphuric acid (10%)	Oxidizing chlorines, some organic acids, hydrochloric acid, hydrofluoric acid
Polymer Liquid crystal polymer	Organic acids, glycols, chlorinated solvents, ketones, mineral and oxidising acids, caustic solutions freons	Sodium hydroxide, sulphuric acid (70%)

This information is provided as a general guide only. Further guidance should be sought with respect to specific chemicals and their applications.

Our components and flange fittings are designed to be leak-tight across the range of vacuum applications, and not intended to provide full structural support. When designing any vacuum system, it is essential that consideration is given to the static and dynamic loads imposed on each connection. If necessary, additional mechanical support should be provided and built into the design. Regular inspection including leak-checking and, where appropriate, periodic replacement of components should be considered to ensure system efficiency and safety is maintained.

CLAMPS, TUBES, VALVES AND HOSE ADAPTORS

Clamps shown include our standard stainless steel clamping ring and our premium products - swing clamps and hinge clamps - both of which are available in polymer and aluminium and are easier to use than the clamping ring.

The speedivalve is our best-selling manually operated valve and is simple to use. It incorporates indication of status and is available with either nitrile or fluoroelastomer diaphragm.

PVC hose clamp

Tube to fit	Clip ID	Order number
NW10/16	25 mm	C10512408
NW20/25	36 mm	C10514408
NW32/40	50 mm	C10516408

PVC hose adaptor

Flange size	Hose ID in (mm)	Order number
NW10	1/2 in (12.7)	C10504081
NW16	1/2 in (12.7)	C10504104
NW16	3/4 in (19.1)	C10504105
NW25	1 in (25.4)	C10504225
NW40	1 1/2 in (38.1)	C10504326

Hinged clamp

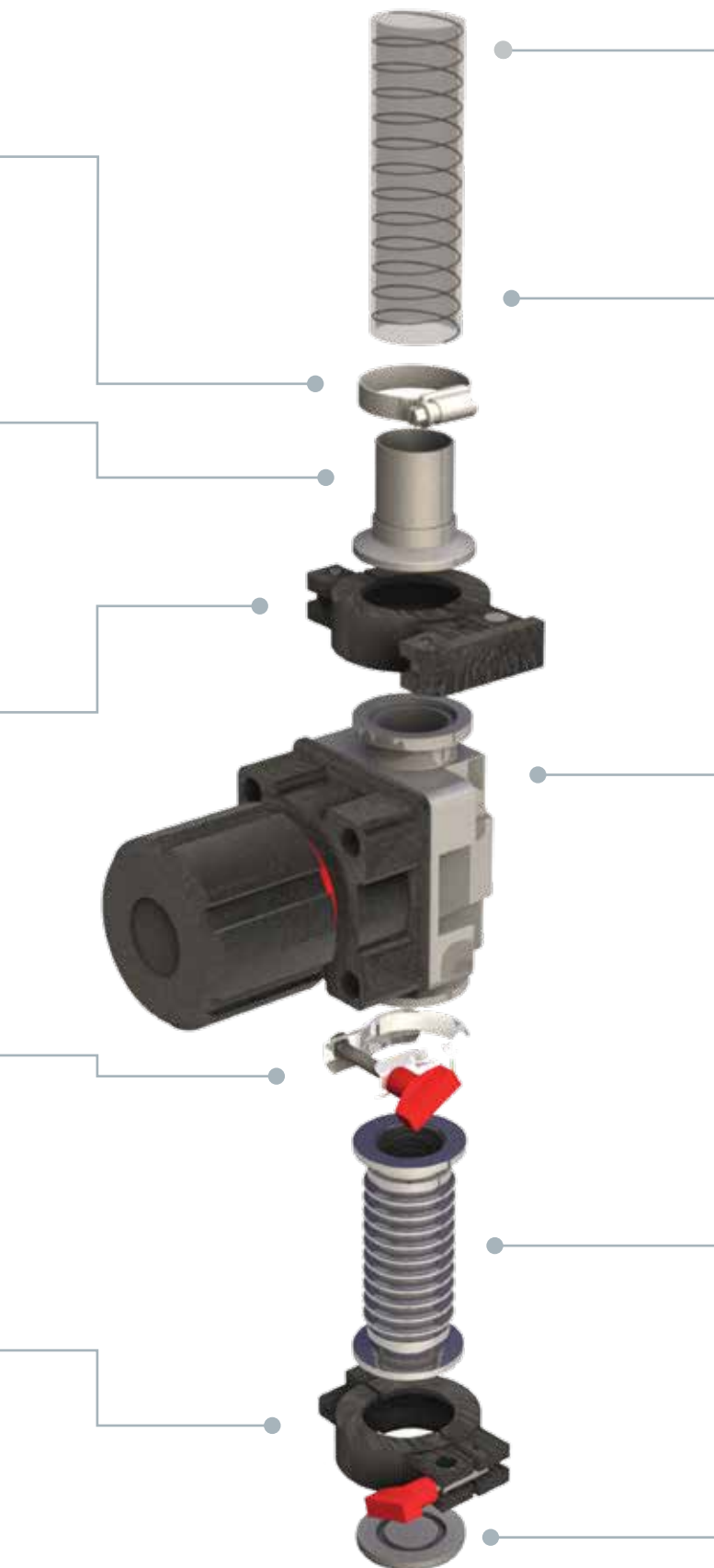
Flange size	Order number	
	Aluminium	Polymer
NW10/16	C10512402	C10512303
NW20/25	C10514402	C10514303
NW32/40	C10516402	C10516303

Stainless steel clamping ring

Flange size	Order number
NW10/16	C10512401
NW20/25	C10514401
NW32/40	C10516401

Swing clamp

Flange size	Order number	
	Aluminium	Polymer
NW10/16	C10512403	C10512304
NW20/25	C10514403	C10514304
NW43/40	C10516403	C10516404



Reinforced PVC tube 1 m lengths

D	Order number	
	Rest of World	N. America
1/2 in	N/A	A63012220
3/4 in	H02100016	U3002173
1 in	H02100017	A63012343
1 1/2 in	H02100018	430000484

Reinforced PVC tube with NW flanges and hose clamps

Flange	Order number	
	500 mm	1000 mm
NW16	C10512055	C10512155
NW25	C10514055	C10514155
NW40	C10516055	C10516155

SP Speedivalve diaphragm isolation valve

Flange size	Order number	
	Nitrile diaphragm	Fluoroelastomer diaphragm
NW10	C33105000	C33155000
NW16	C33205000	C33255000
NW25	C33305000	C33355000
NW40	C33405000	C33455000

Flexible pipelines

Flange size	Order number	
	250 mm long	500 mm long
NW10	C10511285	C10511286
NW16	C10512285	C10512286
NW25	C10514285	C10514286
NW40	C10516285	C10516286

Blanking flange

Flange size	Order number	
	Aluminium	Stainless steel
NW10	C10511368	C10511366
NW16	C10512368	C10512366
NW25	C10514368	C10514366
NW40	C10516368	C10516366

O RINGS, ELBOWS, CROSS PIECES, T PIECES AND REDUCERS

This page shows some of our other common hardware components and, in particular, our range of NW O ring based seals. These include our standard O ring with centering ring available in either nitrile or fluoroelastomer and with polymer, aluminium and stainless steel carriers.

Material selection depends on application and outgassing, operating temperature and leak tightness requirements. Co-Seals keep the carrier out of the vacuum and thus have the added benefit of eliminating crevices and trapped volumes that can lead to instability and gas bursts. The centering rings are only designed for vacuum applications. Where some positive pressure may be seen (such as exhaust lines), Co-Seals and trapped O rings should be used. They have carriers which support the O ring on both sides, making them ideal for both vacuum and positive pressure use.

Centering ring (Nitrile O ring)

Flange size	Order number		
	Polymer carrier	Aluminium carrier	Stainless steel carrier
NW10	C10511393	C10511398	C10511396
NW16	C10512393	C10512398	C10512396
NW25	C10514393	C10514398	C10514396
NW40	C10516393	C10516398	C10516396

Centering ring (Fluoroelastomer O ring)

Flange size	Order number		
	Polymer carrier	Aluminium carrier	Stainless steel carrier
NW10	C10511394	C10511397	C10511395
NW16	C10512394	C10512397	C10512395
NW25	C10514394	C10514397	C10514395
NW40	C10516394	C10516397	C10516395

Trapped O ring (Fluoroelastomer)

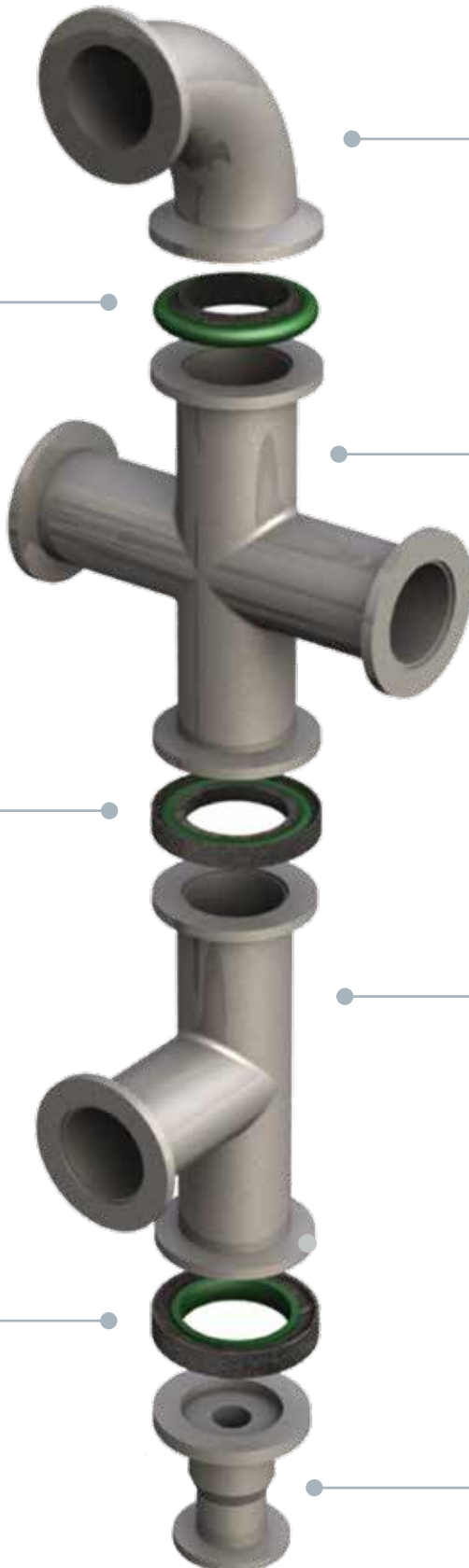
Flange size	Order number
NW10/16	C10512490
NW20/25	C10514490
NW32/40	C10516490

Co-Seal (Nitrile O ring)

Flange size	Order number	
	Polymer carrier	Aluminium carrier
NW10/16	B27158426	B27158480
NW20/25	B27158447	B27158490
NW32/40	B27158454	B27158500

Co-Seal (Fluoroelastomer O ring)

Flange size	Order number	
	Polymer carrier	Aluminium carrier
NW10/16	B27158427	B27158481
NW20/25	B27158448	B27858491
NW32/40	B27158453	B27858501



90° elbow

Flange size	Order number	
	Aluminium	Stainless steel
NW10	C10511410	C10511420
NW16	C10512410	C10512420
NW25	C10514410	C10514420
NW40	C10516410	C10516420

Cross piece

Flange size	Length	Order number	
		Aluminium	Stainless steel
NW10	60 mm	C10511412	C10511422
NW16	80 mm	C10512412	C10512422
NW25	100 mm	C10514412	C10514422
NW40	130 mm	C10516412	C10516422

T-piece

Flange size	Length	Order number	
		Aluminium	Stainless steel
NW10	60 mm	C10511412	C10511421
NW16	80 mm	C10512412	C10512421
NW25	100 mm	C10514412	C10514421
NW40	130 mm	C10516412	C10516421

Reducing piece

Flange size	Order number	
	Aluminium	Stainless steel
NW25/10	C10514436	C10514446
NW25/16	C10514437	C10514447
NW40/16	C10516438	C10516448
NW40/25	C10516439	C10516449



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