

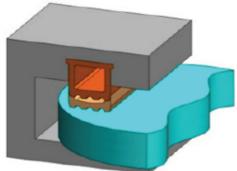
NES TECHNIFLATE® Inflatable Seal Application Data

Application Ref Number	Date
QTE Number (NES field)	
Customer Details	
Company	End Customer
Project Contact	Market Sector
Telephone Number	Installation Location
Email	Annual Demand (Pieces)
Project Budget/Target Price	Likely Order Quantity
Existing or New Design *	Quantity Breaks Required
*If Design is existing; what are the main drivers for resourcing (quality, service life, cost etc.)	

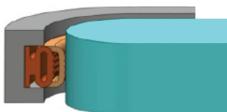
Operating Conditions

Function Required:

Sealing Applications (tick required orientation)



Axial Sealing



Radial Sealing

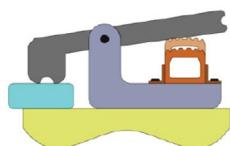


Radial Out Expansion

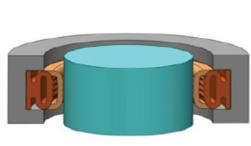


Radial In Expansion

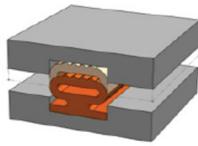
Handling Applications (tick closest relevant)



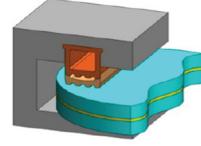
Clamping



Holding



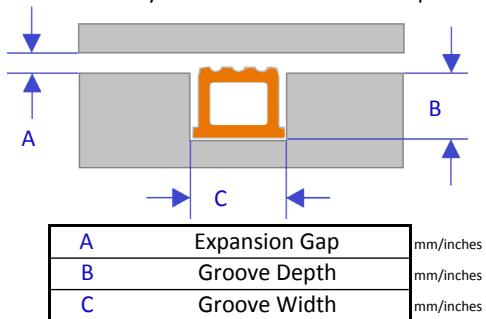
Lifting



Pressing

Hardware Details

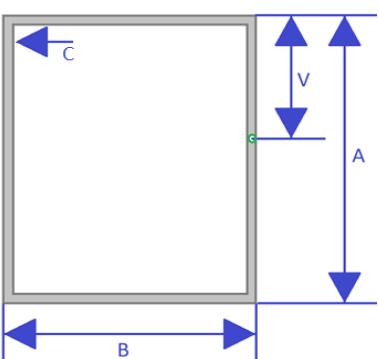
Groove Geometry and Inflation Distance Required



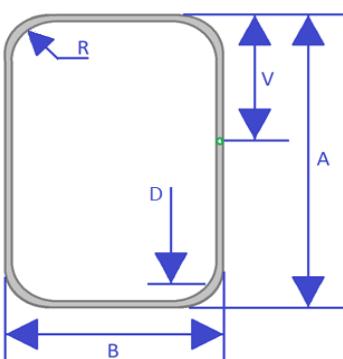
Sketch Geometry if required

Hardware Dimensions - Face Seal

Right Angle Frame



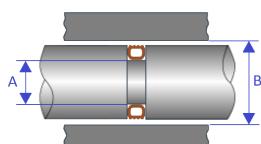
Radius Corner Frame



A	Outer Groove Length	mm/inches
B	Outer Groove Width	mm/inches
V	Valve Position	mm/inches
R	Inner Groove Radius	mm/inches
C	Mitered or Moulded corner?	
D	Moulded Radii or supply round?	

Hardware Dimensions Circular Seal

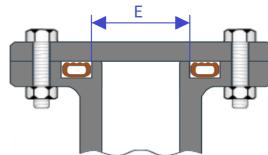
Radial out Configuration



Radial in Configuration



Axial Configuration



A Groove Diameter

mm/inches

B Bore Diameter

mm/inches

C Groove Diameter

mm/inches

D Rod Diameter

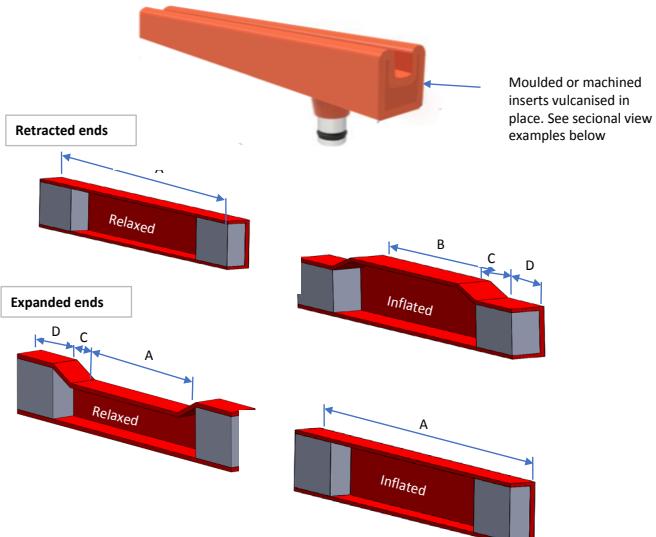
mm/inches

E Inner Diameter

mm/inches

V Valve Position

NES TECHNIFLATE® Sealed End Length



End Type

A Overall Length

mm/inches

B Sealing face length

mm/inches

D Transition length

mm/inches

C Dead spot (no expansion)

mm/inches

Valve position

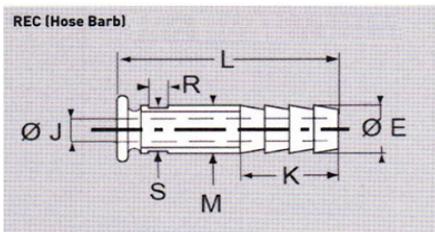
*Please note: there is a dead spot at each end of the length where there will be zero expansion, there is also a transition area of minimal inflation due to restriction from the sealed end.

Where fully expandable lengths are required call our team and ask about our membrane technology

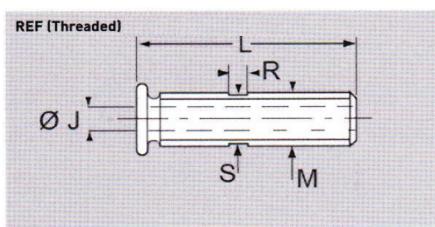
Operating Conditions

	Minimum	Operating	Maximum	Unit	Other Factors			
Temperature	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>			
Pressure	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>			
Media	Tick all that apply <input type="checkbox"/> Hydraulic Oil <input type="checkbox"/> Water <input type="checkbox"/> Steam <input type="checkbox"/> Liquid <input type="checkbox"/> Hydrocarbons <input type="checkbox"/> Ethers <input type="checkbox"/> Acids <input type="checkbox"/> Vapour <input type="checkbox"/> Esters <input type="checkbox"/> Alcohols <input type="checkbox"/> Alkalis <input type="checkbox"/> Gas							
	List all chemicals in contact with the seal. Include CIP <input type="text"/>							
Dynamics								
Number of Cycles	<input type="text"/>	Per hour	<input type="text"/>	Per day	<input type="text"/>	Per week	<input type="text"/>	Per month
Period of Inflation	<input type="text"/>	Seconds	<input type="text"/>	Minutes	<input type="text"/>	Hours	<input type="text"/>	Other
Period of Deflation	<input type="text"/>	Seconds	<input type="text"/>	Minutes	<input type="text"/>	Hours	<input type="text"/>	Other

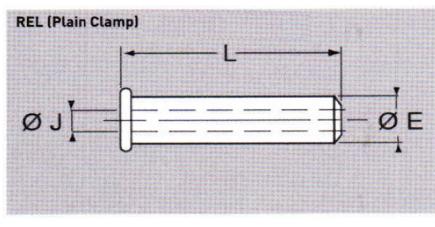
Valves (Other types available upon request)



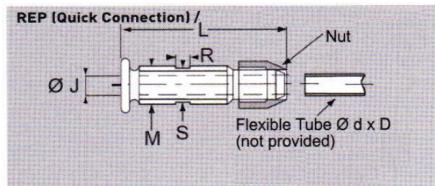
ØE	4	6	8	10	12
M	M6	M8	M10	M12	M14
ØJ	1,5	3	5	6	6
K	12	16	16	20	20
L	30 35 40 50	30 35 40 50	40 50 60 70 80 90	40 50 60 70 80 90	40 50 60 70 80 90
SxR	5x6	6x6	8x8	10x8	11x8



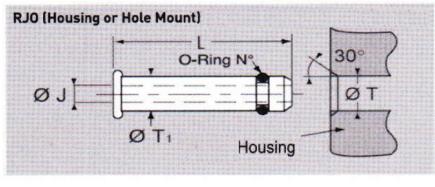
M	M4	M6	76,5 x 0,79	M8	1/8G	M10	1/8NPT	M12	1/4G	M14	M16
ØJ	1,2	3	3	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2
L	15 20 25 30 35 40 50	15 20 25 30 35 40 50	20 25 30 35 35 40 60								
SxR	3x4	5x6	6x6	6x8	8x8	8x8	8x8	10x8	10x8	11x8	13x10



ØE	4	6	8	10	12	14	16
ØJ	1,5	3,4	3,4	5	6,8	6,8	8,5
L	15 20 25 30 40	15 20 25 30 35	20 25 30 35 40	25 30 35 40 45	30 35 40 45 50	35 40 45 50 60	45 50 60 70 80
SxR	3x4	5x6	6x6	6x8	8x8	8x8	10x8



M	M10	M12	M14
ØJ	3	5	7
L	4x6	6x8	8x10
SxR	8x8	10x8	12x8



ØT₁	4	6	8	10	12	14
ØT	4H8	6H8	8H8	10H8	12H8	14H8
ØJ	1	1,5	2	4	5	6,8
OringN°	11018	15001	15004	15006	15007	15008
L	15 20 25 30 40	15 20 25 30 35	20 25 30 35 40	25 30 35 40 45	30 35 40 45 50	35 40 45 50 60

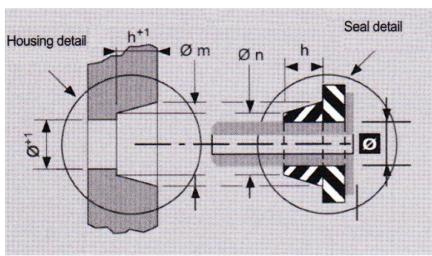
If a moulded valve or a tube valve is required instead, please specify details here

Our standard fittings and valves are manufactured from brass; other materials are available upon request (bronze, stainless steel, etc.)

Valve type Size

No. of valves	
Material	
Special	

Over-moulded Cone (standard type)



Ø	0,15 (4)	0,15 (4)	0,23 (6)	0,31 (8)	0,39 (10)	0,47 (12)	0,55 (14)	0,62 (16)	0,70 (18)
m	0,23 (6)	0,31 (8)	0,47 (12)	0,55 (14)	0,82 (21)	0,94 (24)	1,02 (26)	1,10 (28)	1,18 (30)
n	0,19 (5)	0,23 (6)	0,39 (10)	0,47 (12)	0,55 (14)	0,62 (16)	0,70 (18)	0,78 (20)	0,86 (22)
h	0,07 (3)	0,15 (4)	0,23 (6)	0,23 (6)	0,39 (10)	0,39 (10)	0,47 (12)	0,47 (12)	0,47 (12)

Core Size

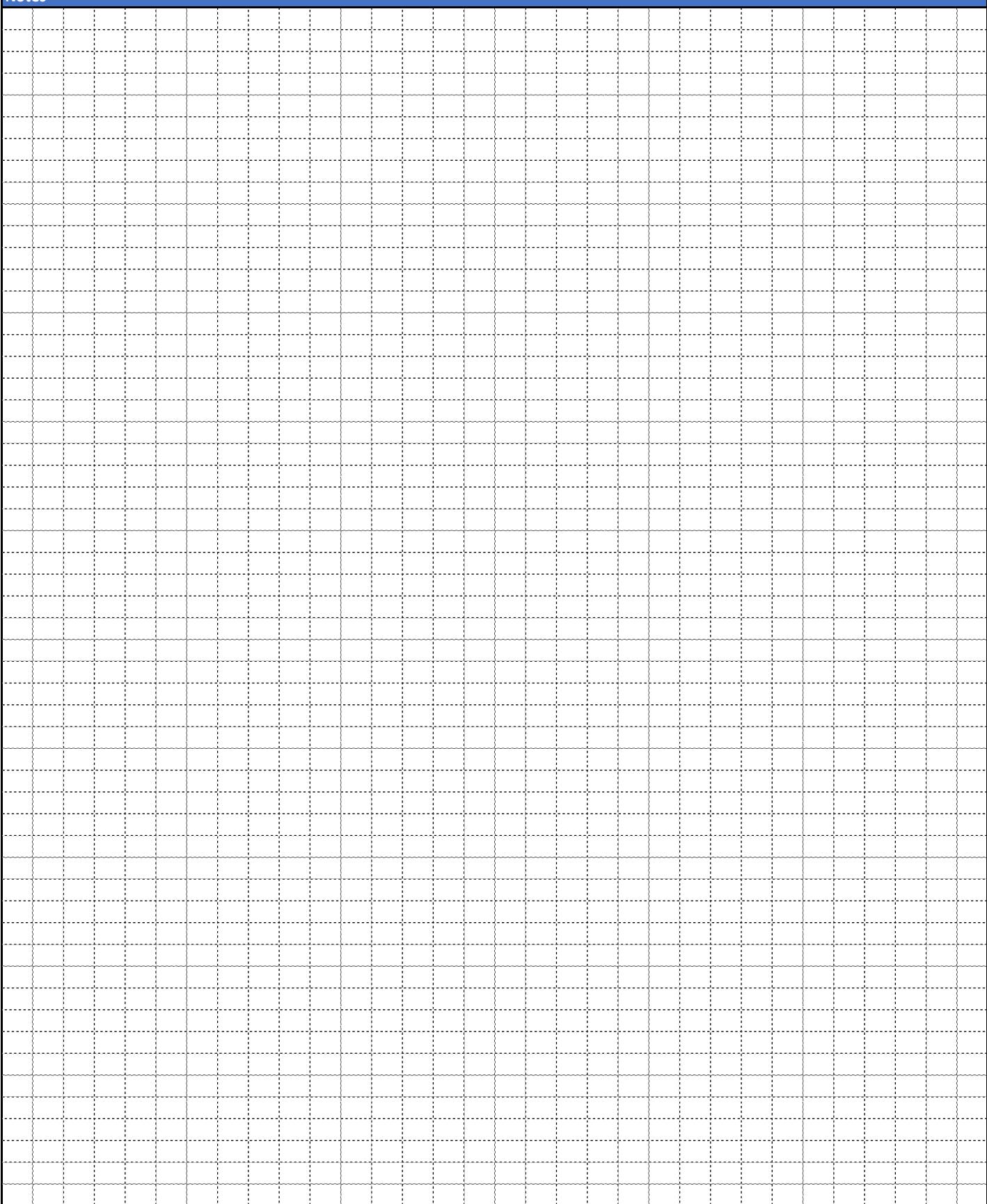
Other

Elastomer and Compliance

Elastomer Type

Compliance

Notes



NES Sheffield is the Integrated Polymer Solutions European HQ



An INTEGRATED POLYMER SOLUTIONS Company

Northern Engineering (Sheffield) Limited,
Haigh Moor Drive, Brooklands Park,
Sheffield, UK, S25 2JY

Tel: +44 (0) 1909 560 203 Fax: +44 (0) 1909 560 184
Web: www.nes-ips.com Email: info@nes-ips.com

