



NEEL IndustrialTM
SOLUTIONS PVT. LTD

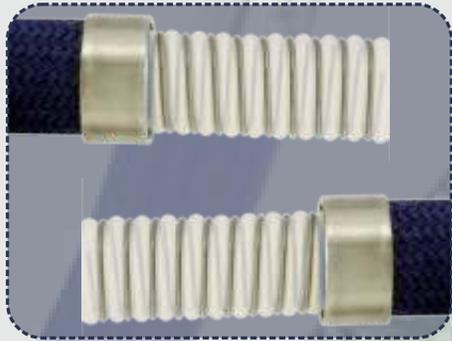
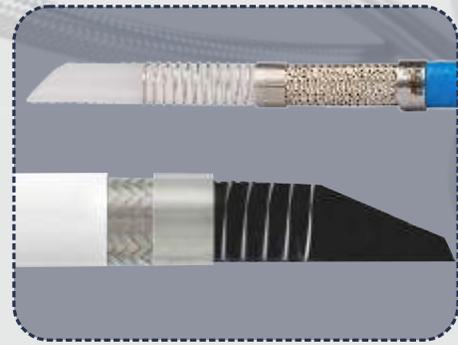
(ISO 9001:2015 Certified Co.)

Range 1/4" - 2" (Dn6 - DN.50)

Virgin and anti-static liners available.

Smooth bore PTFE hose, with external embedded stainless steel vacuum spiral 304 stainless steel overbraid and with extruded platinum cured silicone, EPDM cover.

High performance product offering superb flexibility, smooth wipe. clean cover, zero friction, high pressures and a wide temperature range.



Range 1/4" - 6" (DN6 - DN150) hose in accordance to DIN 26054-2.

Virgin and anti-static liners available, ATEX Certified.

A high profile, deep convoluted, medium wall PTFE hose available with or without external stainless steel vacuum spiral and 304 stainless steel overbraid as standard. Excellent vacuum and pressure rating, even at elevated temperatures.

Choose when difficult routing or arduous flexing is required.

Also for low pressure applications where bare tube with cuffed ends are required.

Silicon Hose is manufactured from High purity platinum cured silicone with AISI 316 stainless steel helix and 4 layers of polyester reinforcement.

Temp. Range: - 60° C and 200° C (+260° C on request)

Coloured covers available

Smooth inner and outer Surface to resist material adhesion

Repeatedly autoclavable

Suitable for pressure and vacuum

Extruded and handmade liner available

Suitable for CIP cleaning

Odorless - Tasteless - Non - Toxic



Key Properties : PTFE

- Wide temperature range of -70°C to + 260°C.
- Excellent insulation, dielectric properties.
- Extremely low coefficient of friction; non-stick.
- Chemically inert, with the exception of a small number of unusual substances and conditions, including liquid boiling sodium metal and fluorine gas at high pressure and temperature.
- PTFE is hydrophobic (will not absorb moisture).
- Excellent UV resistance .
- Unlimited shelf life.
- Excellent flex fatigue qualities, Exceeds all other hose rivals.
- PTFE conforms to FDA21 CFR 177.1550.
- Antistatic PTFE conforms to FDA 21 CFR 178.3297 and is non leaching.

Certification : PTFE

- FDA 21 CFR 177.1550.
- FDA 21 CFR 178.3297.
- Meets the requirements of US Pharmacopeia Class VI.
- BPSA / FDA leachables and extractables recommendations.
- 3 - A Sanitary Standards.
- European Migration Directive 1935 / 2004.
- ATEX Group IIA, IIB and IIC - area types 0, 1 and 2 (in accordance to 1999 / 92 / CE)
- The quality management of Xtraflex NV, has been certified according to NBN - EN - ISO - 9001 : 2008

Certification : Silicon

- FDA Regulation CFR 177.2600
- USP XXVI CLASS VI
- USFDA Standards European Pharmacopeia 3.1.9
- ISO 10993 Sections 5 - 6 - 10 - 11
- FDA - B f R

Check Valve

ITEM	PARTS	MATERIAL	QTY
1	Lower Body	SS 304/SS 316L	1
2	O-Ring	Silicone/EPDM/VITON	1
3	Disc	SS 304/SS 316L	1
4	Spring	SS 304/SS 316L	1
5	Plate	SS 304/SS 316L	1
6	Gasket	Silicone/EPDM/VITON	1
7	Upper Body	SS 304/SS 316L	1
8	Clamp	SS 304	1



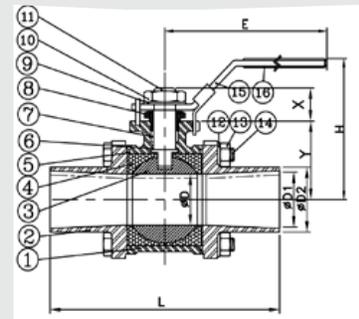
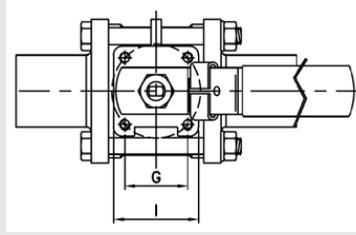
Technical Data

- Max. product pressure : 10 bar • Min. product pressure : 0.06 bar
- Working temperature : -10° C - 140° C (EPDM), -50° C - 200° C (Silicone), -20° C - 210° C (VITON)
- Material Product wetted stainless steel parts: SS304 or SS316L.
- Finish : Semi - bright.
- Other stainless steel parts : SS304.
- Seal : Silicon, EPDM or VITON.
- Clamp : SS304
- Ordering information : size, connection type, material grade, gasket and O - Ring material.

Nominal Size	A	B	C	D
Inch	mm	mm	mm	mm
1/2	9.5	12.7	30	45
3/4	15.8	19.05	30	45
1	22.1	25.4	23.5	35
1 1/2	34.8	38.1	28.5	45
2	47.5	50.8	28.5	45
2 1/2	60.2	63.5	28.5	45
3	72.9	76.2	28.5	45
4	97.6	101.6	42	75

Ball Valve

(Food, Beverage, Chemical Use)



DN	Size Inch	ISO - 5211	D	L	H	E	D1	D2	G	I	X	Y	Torque Nm	
10	3/8	F03	36	10	124	57	134	10	12	25.5	37	14	23.5	4.5
15	1/2	F03	36	15	180	65	134	18.1	21.3	25.5	37	18	29	4.5
20	3/4	F03	36	20	180	68	134	23.7	26.9	25.5	37	19	33	7
25	1	F04	42	25	192	71	134	30.1	33.7	29.7	42	19.5	37.5	11
32	1 1/4	F04	42	32	205	79	134	38.4	42.4	35.4	50	19.5	43	26
40	1 1/2	F05	50	40	230	86	195	44.3	48.3	35.4	50	27.5	48.5	26
50	2	F05	50	50	243	93	195	55.3	60.3	35.4	50	25.5	58.5	34
65	2 1/2	F07	70	65	294	140	262	70.1	76.1	49.5	72	37	79.5	40
80	3	F07	70	80	320	155	262	83	86	49.5	72	42	83.5	54
100	4	F10	102	100	346	180	290	108.1	114.3	72.1	95	49.5	110.5	176

ITEM	PARTS	MATERIAL	QTY
1	BODY	AISI 304 / 316	1
2	CAP	AISI 304 / 316	2
3	BALL	AISI 304 / 316	1
4	SEAT	PTFE / RTFE	2
5	BODY SEAT	PTFE	2
6	THRUST WASHER	PTFE	1
7	STEM PACKING	PTFE	1
8	GLAND NUT	AISI 304	1
9	STEM WASHER	AISI 304	1
10	STEM NUT	AISI 304	1
11	STEM	AISI 304 / 316	1
12	BOLT WASHER	AISI 304	4, 8, 12
13	NUT	AISI 304	4, 8, 12
14	BOLT	AISI 304	4, 6
15	HANDLE	AISI 304	1
16	PLASTIC COVER	PLASTIC	1

Ordering Information

- Valve size, Connection type, Material Grade: 304 (CF8) or 316 (CF8M).
- Seat Material: PTFE or RTFE (Reinforced PTFE).
- Seat Type: Encapsulated or Non - encapsulated.
- Actuation: Manual, Double Acting, Spring Return or Electric.

Angel Seat Valve



- Size 1 / 2 " to 2 1 / 2 "
- Materials - SS 316L.
- Valve Plug and Seal - PTFE.
- End Connection - threaded, clamp, flange or other upon request.
- Actuator - NO / NC With or Without position sensor.

- Application - Angle seat valve is a pneumatic valve. It is widely used in food and chemical processes, sterilization machines, high pressure sterilizers, dry - cleaning machines, clothes dryers and beer equipment, especially in steam piping systems and production lines.

- Working Principal - The operating principle of angle seat valve is the same as the check valve. However, the Y - Shaped Valve body equipped with pneumatic actuator expands the flow cross section of the valve chamber. This makes the fluid steadier and increases the flow rate by 30%. Meanwhile, the flow direction of medium is changed and smaller pneumatic actuator can be equipped.

Diaphragm Valve



- Size 1/2 " to 4 "
- Materials - SS 316L.
- Diaphragm - EPDM + PTFE.
- Max Working Pressure - 10 Bar.
- Working Temperature - (-30° C to 130° C).
- End Connection - TC, Weld.
- Inside Surface - 0.4 μm, 0.5μm and 0.8 μm.

Actuated Diaphragm valve also available.

- Application - Manual type sanitary diaphragm valve with tri - clamp / butt weld ends, which is widely used in food, beverage, dairy, brewing, pharmaceutical industries, ect. It is excellent for flow control as well as for open / close duties.

ASTM A249 / A269 / A270 / 3A Stainless Steel Tube

Nominal Size		Tube Wall Thickness	
Inch	mm	Inch	mm
1/4	6.35	0.035	0.89
3/8	9.53	0.035	0.89
1/2	12.70	0.065	1.65
3/4	19.05	0.065	1.65
1	25.4	0.065	1.65
1 1/2	38.10	0.065	1.65
2	50.8	0.065	1.65
2 1/2	63.5	0.065	1.65
3	76.2	0.065	1.65
4	101.6	0.083	2.11
6	152.4	0.109	2.77



Sanitary Stainless Steel Fitting



- Our Products are delicately built to comply with different standards, Such as 3A, SMS, BS and ASME BPE to suit customer requirements. We have different types of Tubes and Fittings. Size 1/4" to 6".

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