

## Rubber industrial hose - type GSS

DN 20 - DN 250



Type GSS with male thread



Type GSS with rotating flange



Type GSS with fixed flange

### Structure type GSS

- Hose with integrated connection fittings
- Fittings integrated by aluminium clamping shell
- Connection fittings as flange, male thread, female thread or coupling
- Vacuum-resistant version with integrated helix

### Hose

- Smooth hose core and smooth or fabric patterned hose cover of synthetic rubber
- Reinforcement of high-strength synthetic fibre or galvanized steel wire cord
- Additionally integrated steel helix as vacuum-resistant and buckling-resistant version
- Electric resistance  $10^3$  to  $10^6$  ohm (DIN IEC 93, VDE 0303-30)

Rubber grade**	Trade name	Temperature*	Properties
EPDM Ethylene propylene diene rubber	Buna AP Keltan Vistaflon	up to + 110°C	Hot water, steam, acids, lyes
NBR Nitril-butadiene rubber	Perbunan	up to + 90°C	Mineral oil, fuel oil, gases, cooling water with antifreeze additive, petrol, fuels
CSM Chlorosulfonyl polyethylene rubber	Hypalon	-25°C to +100°C	Acids

\*Check or inquire about the reduction in pressure through temperature

\*\*Check or inquire about the resistance of the rubber grade to temperature and medium

### Threaded connections

#### Dimensions

- Female and male thread in accordance with ISO 7-1 conical thread (pressure-tight joints made on the threads)
- Female and male thread in accordance with ISO 228-1 cylindrical thread (pressure-tight joints not made on the threads)

#### Materials

- Threaded connections of brass
- Other materials and threaded connections possible on request

### Quick-acting couplings

- Type Storz
- Type Camlock

### Flange connections

#### Dimensions

- Fixed flanges in accordance with DIN 2632 (PN 10) or DIN 2633 (PN 16)
- Rotating flanges with rim in accordance with DIN 2673 (PN 10)

#### Materials

- Flanges made of steel 1.0038 (RSt 37-2), 1.0460 (C 22.8), electrogalvanized
- Other materials and flange connections on request

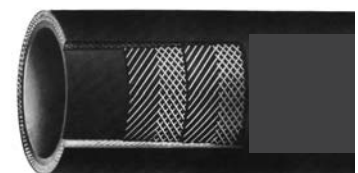
### Applications

- for absorbing lateral movement and lifting movement
- robust industrial hose for a variety of applications
- can be used as pressure hose
- can be used as suction hose with stable cross section thanks to steel helix
- for handling and filling numerous kinds of media
- special version can also be used for
  - steam
  - solvents
  - food products

### Special versions

Other nominal widths and connections available on request

### Version



without helix



vacuum-resistant version with helix

## Hose with threaded connection, standard program

DN	Hose				Screwed union				Weights		Hose approx. kg/m
	Ø DA Hose outer Ø approx. mm	Ø DI Hose inner Ø approx. mm	R Bend radius with helix approx. mm	R Bend radius without helix approx. mm	Ø G Thread Ø inch	Ø d Inner Ø fitting mm	E Clamping shell length mm	F Clamping shell width mm	*Clamping shell and union nut approx. kg	*Clamping shell and nipple with fixed male thread approx. kg	
20	31	19	100	100	G 3/4"	16	65	50	0,40	0,48	0,6
25	37	25	100	150	G 1"	22	72	50	0,56	0,66	0,8
32	44	32	100	150	G 1 1/4"	28	79	50	0,70	0,82	1,2
40	51	38	120	200	G 1 1/2"	34	83	50	0,84	0,92	1,4
50	65	50	140	250	G 2"	46	104	57	1,42	1,52	2,0

\*Weights refer to max. weight for 2 connections

## Hose with flange connection, standard program

DN	Hose				Screwed union				Weights		Hose approx. kg/m
	Ø DA Hose outer Ø approx. mm	Ø DI Hose inner Ø approx. mm	R Bend radius with helix approx. mm	R Bend radius without helix approx. mm	Ø D Flange outer Ø mm	Ø d Inner Ø fitting mm	E Clamping shell length mm	F Clamping shell width mm	*Clamping shell and rotating or fixed flange approx. kg		
20	31	19	100	100	105	16	65	50	2,6	0,6	
25	37	25	100	150	115	22	72	50	3,4	0,8	
32	44	32	100	150	140	28	79	50	4,6	1,2	
40	51	38	120	200	150	34	83	50	5,6	1,4	
50	65	50	140	250	165	46	104	57	7,2	2,0	
65	78	63	180	300	185	58	118	75	9,2	2,4	
80	91	75	200	450	200	70	131	77	12,2	2,9	
100	116	100	250	750	220	95	164	120	16,8	3,7	

\*Weights refer to max. weight for 2 connections  
Larger nominal widths up to DN 300 and connection possibilities on request

## Note

**Our hose range is so varied that precise details concerning media resistance can only be given on request.**

External influences, period of use, care and handling have a major influence on the service life of the hoses. This is why the basic properties of the most common industrial hoses are stated.

The hoses are made at short notice to meet the requirements of their specific purpose and use.

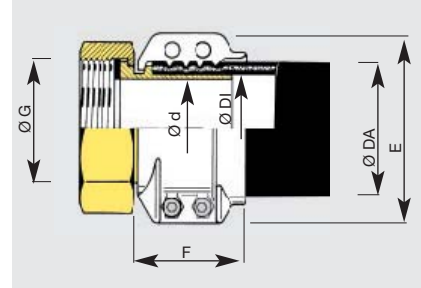
The permitted movement is dependent on the corresponding hose length, hose type and permitted bend radius.

Please comply with the technical instructions in the description and installation instructions. Subject to technical alterations and deviations resulting from the manufacturing process.

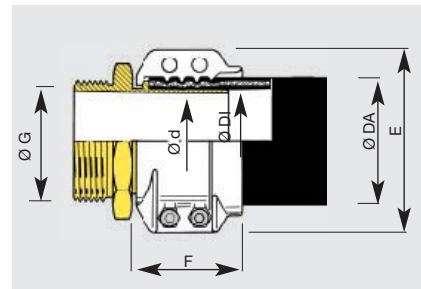
## Hose pressure ratings

DN	tol. operating pressure at +20° C		tol. vacuum	
	bar	bar	bar abs	bar abs
20	16	25	0	0
25	16	25	0	0
32	16	25	0	0
40	16	25	0	0
50	16	25	0	0
65	16	25	0,1	0,1
80	16	25	0,1	0,1
100	16	25	0,1	0,1

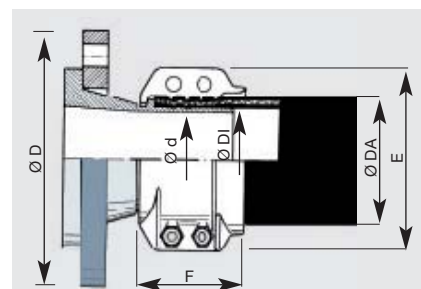
## Connection versions



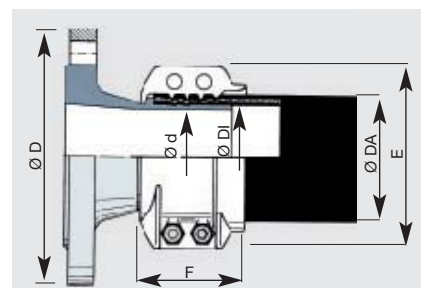
Union nut, with female thread (ISO 228-1), (pressure-tight joints not made on the threads)



Nipple with fixed male thread (ISO 228-1), (pressure-tight joints not made on the threads)



Flange connection with rim/rotating flange



Flange connection with fixed flange