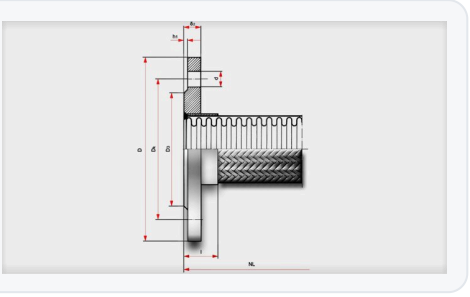
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Flanges PČ and PO

Fixed flanges PČ and swivel flanges PO, DN 15 – DN 150, PN 2.5 – PN 40.

PČ - Fixed flange



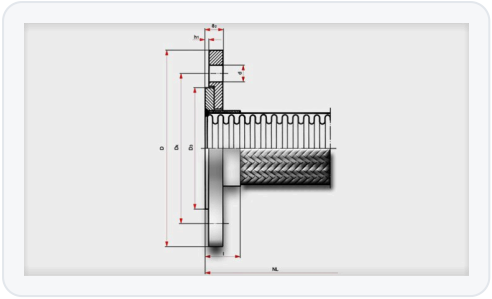
PN – nominal pressure (bar); D – flange outside diameter; Dk – bolt circle diameter; d – bolt hole diameter; other dimensions per drawing (mm).

Joining method: welding

Fitting material	Permissible working temperature
Steel	400 °C
Stainless steel	600 °C

DN	PN	D	D3	Dk	Holes	d	h1	d2	l
15	2,5;6	80	40	55	4	11,5	2	12	20
〃	10;16	95	45	65	4	14	2	14	20
〃	25;40	95	45	65	4	14	2	16	20
20	2,5;6	90	50	65	4	11,5	2	14	20
〃	10;16	105	58	75	4	14	2	16	20
〃	25;40	105	58	75	4	14	2	18	20
25	2,5;6	100	60	75	4	11,5	2	14	20
〃	10;16	115	68	85	4	14	2	16	20
〃	25;40	115	68	85	4	14	2	18	20
32	2,5;6	120	70	90	4	14	2	14	25
〃	10;16	140	78	100	4	18	2	16	25
〃	25;40	140	78	100	4	18	2	18	25
40	2,5;6	130	80	110	4	14	3	14	25
〃	10;16	150	88	110	4	18	2;3	16	25
〃	25;40	150	88	110	4	18	3	18	25
50	2,5;6	140	90	110	4	14	3	14	25
〃	10;16	165	102	125	4	18	3	18	25

PO – Swivel (loose) flange



PN – nominal pressure (bar); D – flange outside diameter; Dk – bolt circle diameter; d – bolt hole diameter; other dimensions per drawing (mm).

Joining method: welding

Fitting material	Permissible working temperature
Steel	400 °C
Stainless steel	600 °C

DN	PN	D	D3	Dk	Holes	d	h1	d2	l
〃	25;40	165	102	125	4	18	3	20	25
DN	**PN**	**D**	**D3**	**Dk**	**Holes**	**d**	**h1**	**d2**	**l**
15	2,5;6	80	40	55	4	11,5	2	12	20
〃	10;16	95	45	65	4	14	2	14	20
〃	25;40	95	45	65	4	14	2	16	20
20	2,5;6	90	50	65	4	11,5	2	14	20
〃	10;16	105	58	75	4	14	2	16	20
〃	25;40	105	58	75	4	14	2	18	20
25	2,5;6	100	60	75	4	11,5	2	14	20
〃	10;16	115	68	85	4	14	2	16	20
〃	25;40	115	68	85	4	14	2	18	20
32	2,5;6	120	70	90	4	14	2	14	25
〃	10;16	140	78	100	4	18	2	16	25
〃	25;40	140	78	100	4	18	2	18	25
40	2,5;6	130	80	110	4	14	3	14	25
〃	10;16	150	88	110	4	18	2;3	16	25
〃	25;40	150	88	110	4	18	3	18	25
50	2,5;6	140	90	110	4	14	3	14	25
〃	10;16	165	102	125	4	18	3	18	25
〃	25;40	165	102	125	4	18	3	20	25
65	2,5;6	160	110	130	4	14	3	14	30
〃	10;16	185	122	145	4	18	3	18	30
〃	25;40	185	122	145	8	18	3	22	30
80	2,5;6	190	128	150	4	18	3	16	30
〃	10	200	138	160	4	18	3	20	30
〃	16	200	138	160	8	18	3	20	30
〃	25;40	200	138	160	8	18	3	24	30

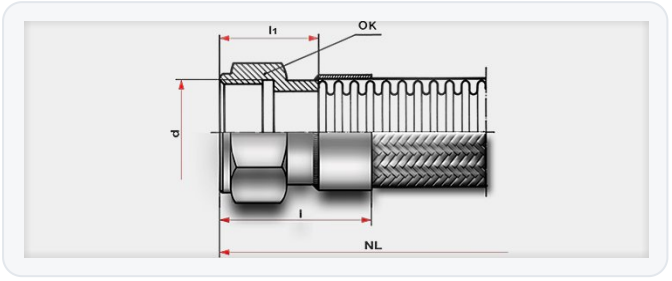
DN	PN	D	D3	Dk	Holes	d	h1	d2	l
100	2,5;6	210	148	170	4	18	3	16	30
〃	10;16	220	158	180	8	18	3	20	30
〃	25;40	235	162	190	8	22	3	24	30
125	2,5;6	240	178	200	8	18	3	18	40
〃	10;16	250	188	210	8	18	3	22	40
150	2,5;6	265	202	225	8	18	3	18	40
〃	10;16	285	212	240	8	22	3	22	40

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Threaded fittings

PČU, PČS, PORU, PORU 2, POKU, POKU 2, PORS and POKS – fixed and swivel, female and male threads.

PČU - Threaded fitting, fixed, female thread



d – thread or outside diameter; OK – spanner size; l1, l – lengths per drawing; s – wall thickness (mm). NL – nominal length of the hose assembly.

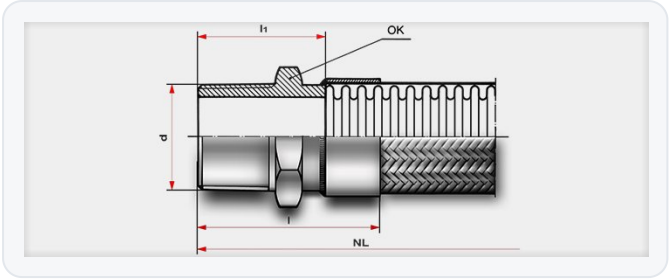
Joining method: welding

Fitting material	Permissible working temperature
Steel	400 °C
Stainless steel	600 °C

PČU

DN	d	OK	l1	l
6	Rp 1/4	17	19	39
10	Rp 3/8	22	20	40
12	Rp 1/2	27	23	43
15	Rp 1/2	27	23	43
20	Rp 3/4	32	27	47
25	Rp 1	41	32	52
32	Rp 1 1/4	46	35	60
40	Rp 1 1/2	55	37	62
50	Rp 2	65	39	64

PČS – Threaded fitting, fixed, male thread



d – thread or outside diameter; OK – spanner size;
l1, l – lengths per drawing; s – wall thickness (mm).
NL – nominal length of the hose assembly.

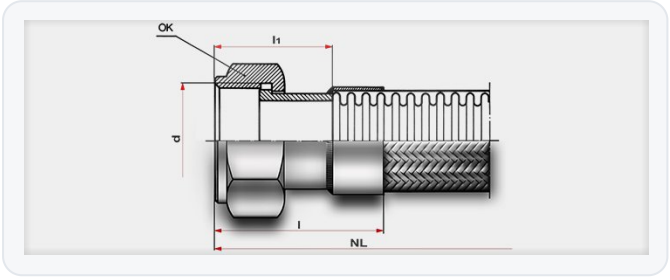
Joining method: welding

Fitting material	Permissible working temperature
Steel	400 °C
Stainless steel	600 °C
Brass	250 °C
Malleable cast iron (TeL)	300 °C

PČS

DN	d	OK	l1	l
6	Rp 1/4	17	20	40
10	Rp 3/8	22	23	43
12	Rp 1/2	27	28	48
15	Rp 1/2	27	28	48
20	Rp 3/4	32	33	53
25	Rp 1	41	40	60
32	Rp 1 1/4	50	43	68
40	Rp 1 1/2	55	47	72
50	Rp 2	70	50	75
65	Rp 2 1/2	85	55	85
80	Rp 3	100	65	95

PORU – Threaded fitting, swivel, flat-face seal, female thread



d – thread or outside diameter; OK – spanner size;
l1, l – lengths per drawing; s – wall thickness (mm).
NL – nominal length of the hose assembly.

Joining method: welding

Fitting material	Permissible working temperature
Steel	400 °C

PORU.R

DN	d	OK	l1	l
6	G 1/4	17	38	58
10	G 3/8	22	38	58
12	G 1/2	27	40	60
15	G 1/2	30	40	60
20	G 3/4	32	44	64
25	G 1	41	47	67
32	G 1 1/4	46	50	75
40	G 1 1/2	55	50	75

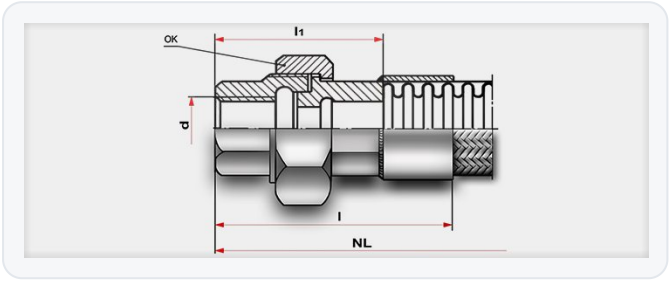
Fitting material	Permissible working temperature
Stainless steel	600 °C
Brass	250 °C

DN	d	OK	l1	l
50	G 2	65	52	77
65	G 2 1/2	80	55	85
80	G 3	95	55	85

PORU.M (metric thread)

DN	d	OK	l1	l
6	M 14×1,5	17	38	58
10	M 18×1,5	22	38	58
12	M 22×1,5	27	40	60
15	M 26×1,5	32	40	60
20	M 30×1,5	36	44	64
25	M 38×1,5	46	47	67
32	M 45×1,5	55	50	75
40	M 52×1,5	60	50	75
50	M 62×1,5	75	52	77

PORU 2 – Threaded fitting, swivel union, flat-face seal, female thread



d – thread or outside diameter; OK – spanner size; l1, l – lengths per drawing; s – wall thickness (mm). NL – nominal length of the hose assembly.

Joining method: welding

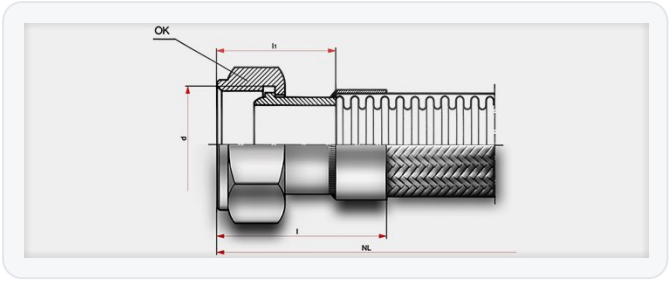
PORU 2

DN	d	OK	l1	l
6	Rp 1/4	32	38	58
10	Rp 3/8	32	45	65
12	Rp 1/2	46	48	68
15	Rp 1/2	46	48	68
20	Rp 3/4	50	52	72
25	Rp 1	55	58	78
32	Rp 1 1/4	70	65	90
40	Rp 1 1/2	75	70	95

Fitting material	Permissible working temperature
Steel	400 °C
Stainless steel	600 °C
Brass	250 °C
Malleable cast iron (TeL)	300 °C

DN	d	OK	l1	l
50	Rp 2	90	78	103

POKU – Threaded fitting, swivel, spherical seat seal, female thread



d – thread or outside diameter; OK – spanner size; l1, l – lengths per drawing; s – wall thickness (mm). NL – nominal length of the hose assembly.

Joining method: welding

Fitting material	Permissible working temperature
Steel	400 °C
Stainless steel	600 °C

POKU.R

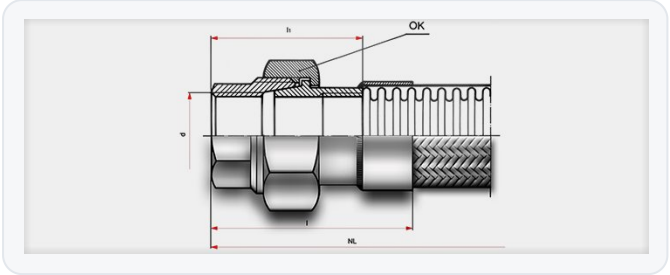
DN	d	OK	l1	l
6	G 1/4	17	38	58
10	G 3/8	22	38	58
12	G 1/2	27	40	60
15	G 1/2	30	40	60
20	G 3/4	32	44	64
25	G 1	41	47	67
32	G 1 1/4	46	50	75
40	G 1 1/2	55	50	75
50	G 2	65	52	77
65	G 2 1/2	80	55	85
80	G 3	95	55	85

POKU.M (metric thread)

DN	d	OK	l1	l
6	M 14×1,5	17	38	58
10	M 18×1,5	22	38	58
12	M 22×1,5	27	40	60
15	M 26×1,5	32	40	60

DN	d	OK	l1	l
20	M 30×1,5	36	44	64
25	M 38×1,5	46	47	67
32	M 45×1,5	55	50	75

POKU 2 – Threaded fitting, swivel union, cone seat seal, female thread



d – thread or outside diameter; OK – spanner size; l1, l – lengths per drawing; s – wall thickness (mm). NL – nominal length of the hose assembly.

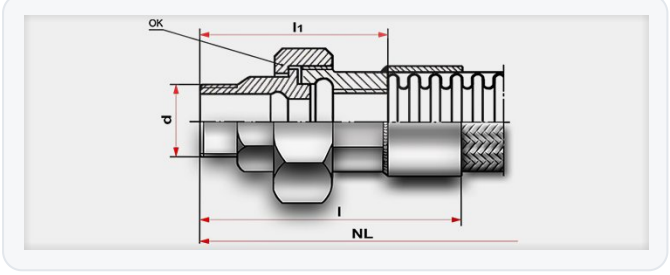
Joining method: welding

Fitting material	Permissible working temperature
Steel	400 °C
Stainless steel	600 °C
Brass	250 °C
Malleable cast iron (TeL)	300 °C

POKU 2

DN	d	OK	l1	l
6	Rp 1/4	32	38	58
10	Rp 3/8	32	45	65
12	Rp 1/2	46	48	68
15	Rp 1/2	46	48	68
20	Rp 3/4	50	52	72
25	Rp 1	55	58	78
32	Rp 1 1/4	70	65	90
40	Rp 1 1/2	75	70	95
50	Rp 2	90	78	103

PORS – Threaded fitting, swivel union, flat-face seal, male thread



PORS

DN	d	OK	l1	l
6	Rp 1/4	32	42	62
10	Rp 3/8	32	58	78
12	Rp 1/2	46	66	86

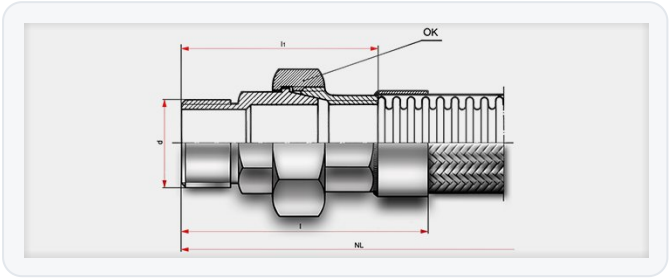
d – thread or outside diameter; OK – spanner size; l1, l – lengths per drawing; s – wall thickness (mm). NL – nominal length of the hose assembly.

Joining method: welding

Fitting material	Permissible working temperature
Steel	400 °C
Stainless steel	600 °C
Brass	250 °C
Malleable cast iron (TeL)	300 °C

DN	d	OK	l1	l
15	Rp 1/2	46	66	86
20	Rp 3/4	50	72	92
25	Rp 1	55	80	100
32	Rp 1 1/4	70	90	115
40	Rp 1 1/2	75	95	120
50	Rp 2	90	106	131

POKS - Threaded fitting, swivel union, cone seat seal, male thread



POKS

d – thread or outside diameter; OK – spanner size; l1, l – lengths per drawing; s – wall thickness (mm). NL – nominal length of the hose assembly.

Joining method: welding

Fitting material	Permissible working temperature
Steel	400 °C
Stainless steel	600 °C
Brass	250 °C
Malleable cast iron (TeL)	300 °C

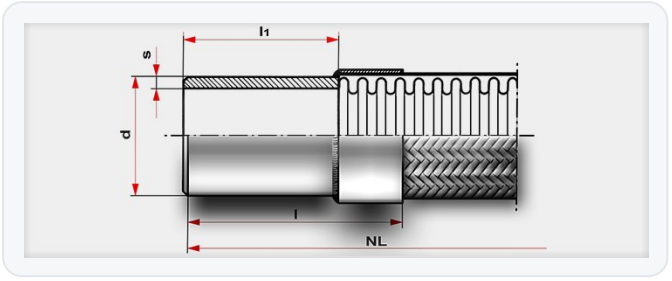
DN	d	OK	l1	l
6	Rp 1/4	32	42	62
10	Rp 3/8	32	58	78
12	Rp 1/2	46	66	86
15	Rp 1/2	46	66	86
20	Rp 3/4	50	72	92
25	Rp 1	55	80	100
32	Rp 1 1/4	70	90	115
40	Rp 1 1/2	75	95	120
50	Rp 2	90	106	131

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Weld-on ends

NC and NCS weld-on ends for welding the hose directly into the pipeline.

NC – Weld-on end for welding



d – thread or outside diameter; OK – spanner size;
l1, l – lengths per drawing; s – wall thickness (mm).
NL – nominal length of the hose assembly.

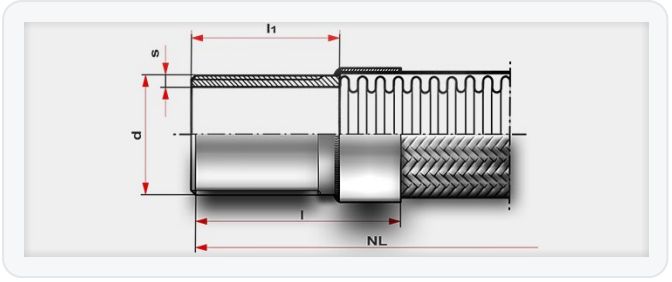
Joining method: welding

Fitting material	Permissible working temperature
Steel	400 °C
Stainless steel	600 °C

NC

DN	d	l1	l	s
6	13,5	30	50	1,6
10	17,2	30	50	1,8
12	21,3	30	50	2
15	21,3	40	60	2
20	26,9	40	60	2,3
25	33,7	40	60	2,6
32	42,4	50	75	2,6
40	48,3	50	75	2,6
50	60,3	50	75	2,9
65	76,1	60	90	2,9
80	89,9	60	90	3,2
100	114,3	60	90	3,6
125	139,7	60	100	4
150	168.3	60	100	4,5

NCS - Weld-on end with male thread



d – thread or outside diameter; OK – spanner size; l1, l – lengths per drawing; s – wall thickness (mm). NL – nominal length of the hose assembly.

Joining method: welding

Fitting material	Permissible working temperature
Steel	400 °C
Stainless steel	600 °C

NCS

DN	d	l1	l
6	R1/4	15	35
10	R3/8	20	40
12	R1/2	25	45
15	R5/8	25	45
20	R3/4	30	50
25	R1	35	55
32	R1 1/4	35	60
40	R1 1/2	40	65
50	R2	45	70
65	R2 1/2	50	80
80	R3	50	80
100	R4	55	85
125	R5	60	100
150	R6	70	110