

JRG Sanipex classic (10°C)

Druckverlustdiagramm für Sanipex Rohre:

Rohrreibungsdruckgefälle in Abhängigkeit vom Volumenstrom

Berechnungsgrundlage:

Wassertemperatur	= 10°C
Oberflächenrauigkeit k	= 0.007 mm
Viskosität	= 0.00131 Pa·s
Dichte ρ	= 999.70 kg/m ³

Empfohlene Fließgeschwindigkeit nach SVGW Richtlinie W3/2013:

- max. 4.0 m/s für Ausstossleitungen
- max. 3.0 m/s für Apparategruppen
- max. 3.0 m/s für Stockwerksverteilungen
- max. 2.0 m/s für Verteilleitungen

Diagramme des pertes de charge dans les tuyaux Sanipex:

Perte de charge par frottement dépendant du débit volumique:

Base de calcul:

Température d'eau	= 10°C
Rugosité des parois k	= 0.007 mm
Viscosité	= 0.00131 Pa·s
Densité ρ	= 999.70 kg/m ³

Débit recommandé pour la politique SSIGE W3/2013:

- max. 4.0 m/s pour conduite d'évacuation
- max. 3.0 m/s pour groupe d'appareils
- max. 3.0 m/s pour distribution d'étage
- max. 2.0 m/s pour conduite de distribution

Diagramma della perdita di carico per tubi Sanipex:

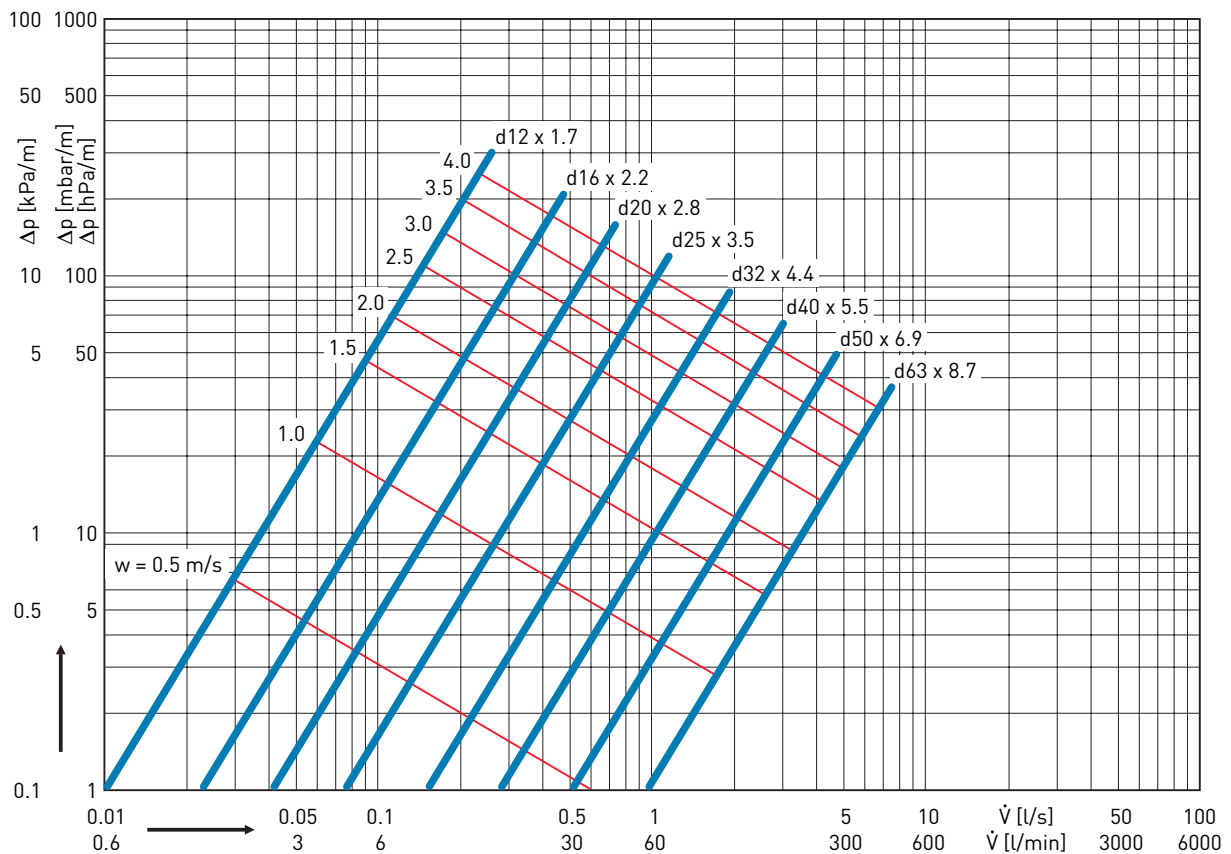
Caduta di pressione per attrito del tubo a dipendenza del flusso volumetrico:

Base di calcolo:

Temperatura d'acqua	= 10°C
Rugosità del tubo k	= 0.007 mm
Viscosità	= 0.00131 Pa·s
Densità ρ	= 999.70 kg/m ³

Portata consigliata dal SSIGA politica W3/2013:

- max. 4.0 m/s per linee di getto
- max. 3.0 m/s per gruppi di apparecchiature
- max. 3.0 m/s per linee di piano
- max. 2.0 m/s per linee di distribuzione



JRG Sanipex classic (10°C)

Pressure loss chart for Sanipex pipes:

Pipe friction loss in relation to flow rate

Basis of calculation:

Water temperature	= 10°C
Surface roughness k	= 0.007 mm
Viscosity	= 0.00131 Pa·s
Density ρ	= 999.70 kg/m ³

Recommended flow velocity according SVGW guideline W3/2013:

- max. 4.0 m/s for single outlet lines
- max. 3.0 m/s for apparatus lines
- max. 3.0 m/s for floor distribution lines
- max. 2.0 m/s for distribution lines

Diagramme des pertes de charge dans les tuyaux Sanipex:

Perte de charge par frottement dépendant du débit volumique:

Base de calcul:

Température d'eau	= 10°C
Rugosité des parois k	= 0.007 mm
Viscosité	= 0.00131 Pa·s
Densité ρ	= 999.70 kg/m ³

Débit recommandé pour la politique SSIGE W3/2013:

- max. 4.0 m/s pour conduite d'évacuation
- max. 3.0 m/s pour groupe d'appareils
- max. 3.0 m/s pour distribution d'étage
- max. 2.0 m/s pour conduite de distribution

Diagramma della perdita di carico per tubi Sanipex:

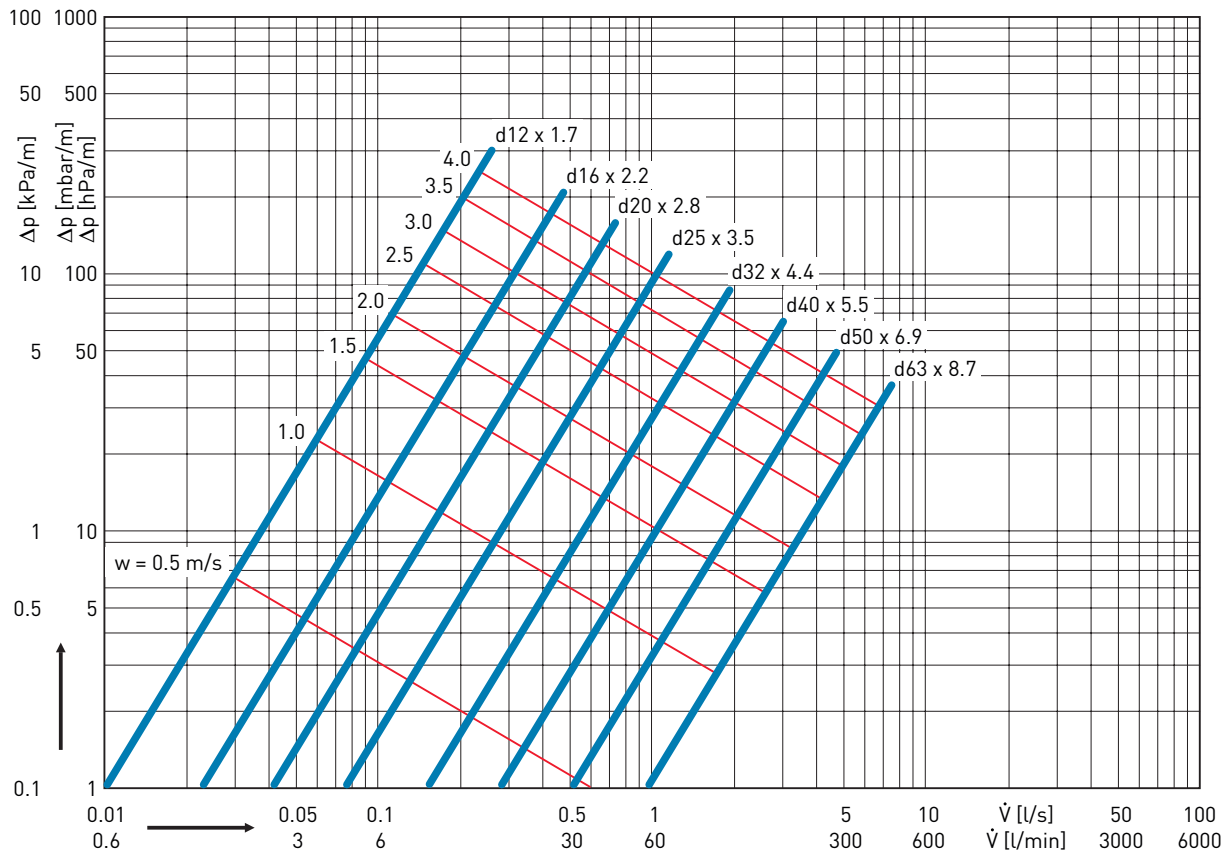
Caduta di pressione per attrito del tubo a dipendenza del flusso volumetrico:

Base di calcolo:

Temperatura d'acqua	= 10°C
Rugosità del tubo k	= 0.007 mm
Viscosità	= 0.00131 Pa·s
Densità ρ	= 999.70 kg/m ³

Portata consigliata dal SSIGA politica W3/2013:

- max. 4.0 m/s per linee di getto
- max. 3.0 m/s per gruppi di apparecchiature
- max. 3.0 m/s per linee di piano
- max. 2.0 m/s per linee di distribuzione



JRG Sanipex classic (10 °C)

d	12		16		20		25		32		40		50		63	
DN	8		12		15		20		25		32		40		50	
V	v	R	v	R	v	R	v	R	v	R	v	R	v	R	v	R
[l/s]	[m/s]	[hPa/m]	[m/s]	[hPa/m]	[m/s]	[hPa/m]	[m/s]	[hPa/m]	[m/s]	[hPa/m]	[m/s]	[hPa/m]	[m/s]	[hPa/m]	[m/s]	[hPa/m]
0.01	0.2	1.0	0.1	0.2	0.1	0.1										
0.02	0.3	3.3	0.2	0.8	0.1	0.3	0.1	0.1								
0.03	0.5	6.8	0.3	1.6	0.2	0.6	0.1	0.2								
0.04	0.7	11.3	0.4	2.7	0.2	1.0	0.2	0.3								
0.05	0.9	16.7	0.5	4.0	0.3	1.4	0.2	0.5	0.1	0.1						
0.06	1.0	23.0	0.6	5.5	0.4	1.9	0.2	0.7	0.1	0.2	0.1	0.1				
0.07	1.2	30.2	0.7	7.2	0.4	2.5	0.3	0.9	0.2	0.3	0.1	0.1				
0.08	1.4	38.2	0.8	9.1	0.5	3.2	0.3	1.1	0.2	0.3	0.1	0.1				
0.09	1.5	46.9	0.9	11.2	0.6	4.0	0.4	1.4	0.2	0.4	0.1	0.1				
0.10	1.7	56.5	0.9	13.4	0.6	4.8	0.4	1.6	0.2	0.5	0.2	0.2	0.1	0.1		
0.15	2.6	115.1	1.4	27.4	0.9	9.7	0.6	3.3	0.4	1.0	0.2	0.3	0.1	0.1		
0.20	3.4	190.8	1.9	45.3	1.2	16.1	0.8	5.5	0.5	1.6	0.3	0.6	0.2	0.2	0.1	0.1
0.25	4.3	282.3	2.4	67.1	1.5	23.8	1.0	8.1	0.6	2.4	0.4	0.8	0.2	0.3	0.2	0.1
0.30	5.2	388.8	2.8	92.4	1.8	32.7	1.2	11.2	0.7	3.3	0.5	1.1	0.3	0.4	0.2	0.1
0.35			3.3	121.1	2.1	42.9	1.4	14.7	0.8	4.3	0.5	1.5	0.3	0.5	0.2	0.2
0.40			3.8	153.1	2.5	54.2	1.6	18.6	0.9	5.5	0.6	1.9	0.4	0.6	0.2	0.2
0.45			4.3	188.3	2.8	66.7	1.8	22.8	1.1	6.8	0.7	2.3	0.4	0.8	0.3	0.3
0.50			4.7	226.6	3.1	80.2	2.0	27.5	1.2	8.1	0.8	2.8	0.5	1.0	0.3	0.3
0.55			5.2	267.9	3.4	94.9	2.2	32.5	1.3	9.6	0.8	3.3	0.5	1.1	0.3	0.4
0.60					3.7	110.5	2.4	37.9	1.4	11.2	0.9	3.8	0.6	1.3	0.4	0.4
0.65					4.0	127.2	2.6	43.6	1.5	12.9	1.0	4.4	0.6	1.5	0.4	0.5
0.70					4.3	144.9	2.8	49.6	1.7	14.7	1.1	5.0	0.7	1.7	0.4	0.6
0.75					4.6	163.5	2.9	56.0	1.8	16.6	1.1	5.7	0.7	2.0	0.5	0.6
0.80					4.9	183.1	3.1	62.7	1.9	18.6	1.2	6.4	0.8	2.2	0.5	0.7
0.85					5.2	203.7	3.3	69.8	2.0	20.6	1.3	7.1	0.8	2.4	0.5	0.8
0.90							3.5	77.1	2.1	22.8	1.4	7.8	0.9	2.7	0.6	0.9
0.95							3.7	84.8	2.2	25.1	1.4	8.6	0.9	3.0	0.6	1.0
1.00							3.9	92.8	2.4	27.4	1.5	9.4	1.0	3.2	0.6	1.1
1.05							4.1	101.1	2.5	29.9	1.6	10.2	1.0	3.5	0.6	1.2
1.10									2.6	32.4	1.7	11.1	1.1	3.8	0.7	1.3
1.15									2.7	35.1	1.7	12.0	1.1	4.1	0.7	1.4
1.20									2.8	37.8	1.8	12.9	1.2	4.5	0.7	1.5
1.25									3.0	40.6	1.9	13.9	1.2	4.8	0.8	1.6
1.30									3.1	43.5	2.0	14.9	1.3	5.1	0.8	1.7
1.35									3.2	46.5	2.0	15.9	1.3	5.5	0.8	1.8
1.40									3.3	49.6	2.1	17.0	1.4	5.9	0.9	1.9
1.45									3.4	52.7	2.2	18.1	1.4	6.2	0.9	2.1
1.50									3.5	55.9	2.3	19.2	1.5	6.6	0.9	2.2
1.55									3.7	59.3	2.3	20.3	1.5	7.0	0.9	2.3
1.60									3.8	62.6	2.4	21.5	1.6	7.4	1.0	2.4
1.65									3.9	66.1	2.5	22.7	1.6	7.8	1.0	2.6
1.70									4.0	69.7	2.6	23.9	1.7	8.2	1.0	2.7
1.75											2.6	25.1	1.7	8.7	1.1	2.9
1.80											2.7	26.4	1.7	9.1	1.1	3.0
1.85											2.8	27.7	1.8	9.5	1.1	3.2
1.90											2.9	29.0	1.8	10.0	1.2	3.3
1.95											3.0	30.4	1.9	10.5	1.2	3.5
2.00											3.0	31.8	1.9	10.9	1.2	3.6
2.10													2.0	11.9	1.3	3.9
2.20													2.1	12.9	1.3	4.3
2.30													2.2	14.0	1.4	4.6
2.40													2.3	15.1	1.5	5.0
2.50													2.4	16.2	1.5	5.3
2.60													2.5	17.4	1.6	5.7
2.70													2.6	18.5	1.7	6.1
2.80													2.7	19.8	1.7	6.5
2.90													2.8	21.0	1.8	6.9
3.00													2.9	22.3	1.8	7.4
3.10													3.0	23.6	1.9	7.8
3.20															2.0	8.2
3.30															2.0	8.7
3.40															2.1	9.2
3.50															2.1	9.7
3.60															2.2	10.1
3.70															2.3	10.6
3.80															2.3	11.2
3.90															2.4	11.7
4.00															2.4	12.2
4.10															2.5	12.7
4.20															2.6	13.3
4.30															2.6	13.9
4.40															2.7	14.4
4.50															2.8	15.0
4.60															2.8	15.6
4.70															2.9	16.2
4.80															2.9	16.8
4.90															3.0	17.4

JRG Sanipex classic (60°C)

Druckverlustdiagramm für Sanipex Rohre:

Rohrreibungsdruckgefälle in Abhängigkeit vom Volumenstrom

Berechnungsgrundlage:

Wassertemperatur	= 60°C
Oberflächenrauigkeit k	= 0.007 mm
Viskosität	= 0.00013 Pa·s
Dichte ρ	= 983.19 kg/m ³

Empfohlene Fließgeschwindigkeit nach SVGW Richtlinie W3/2013:

- max. 4.0 m/s für Ausstossleitungen
- max. 3.0 m/s für Apparategruppen
- max. 3.0 m/s für Stockwerksverteilungen
- max. 2.0 m/s für Verteilungen

Diagramme des pertes de charge dans les tuyaux Sanipex:

Perte de charge par frottement dépendant du débit volumique:

Base de calcul:

Température d'eau	= 60°C
Rugosité des parois k	= 0.007 mm
Viscosité	= 0.00013 Pa·s
Densité ρ	= 983.19 kg/m ³

Débit recommandé pour la politique SSIGE W3/2013:

- max. 4.0 m/s pour conduite d'évacuation
- max. 3.0 m/s pour groupe d'appareils
- max. 3.0 m/s pour distribution d'étage
- max. 2.0 m/s pour conduite de distribution

Diagramma della perdita di carico per tubi Sanipex:

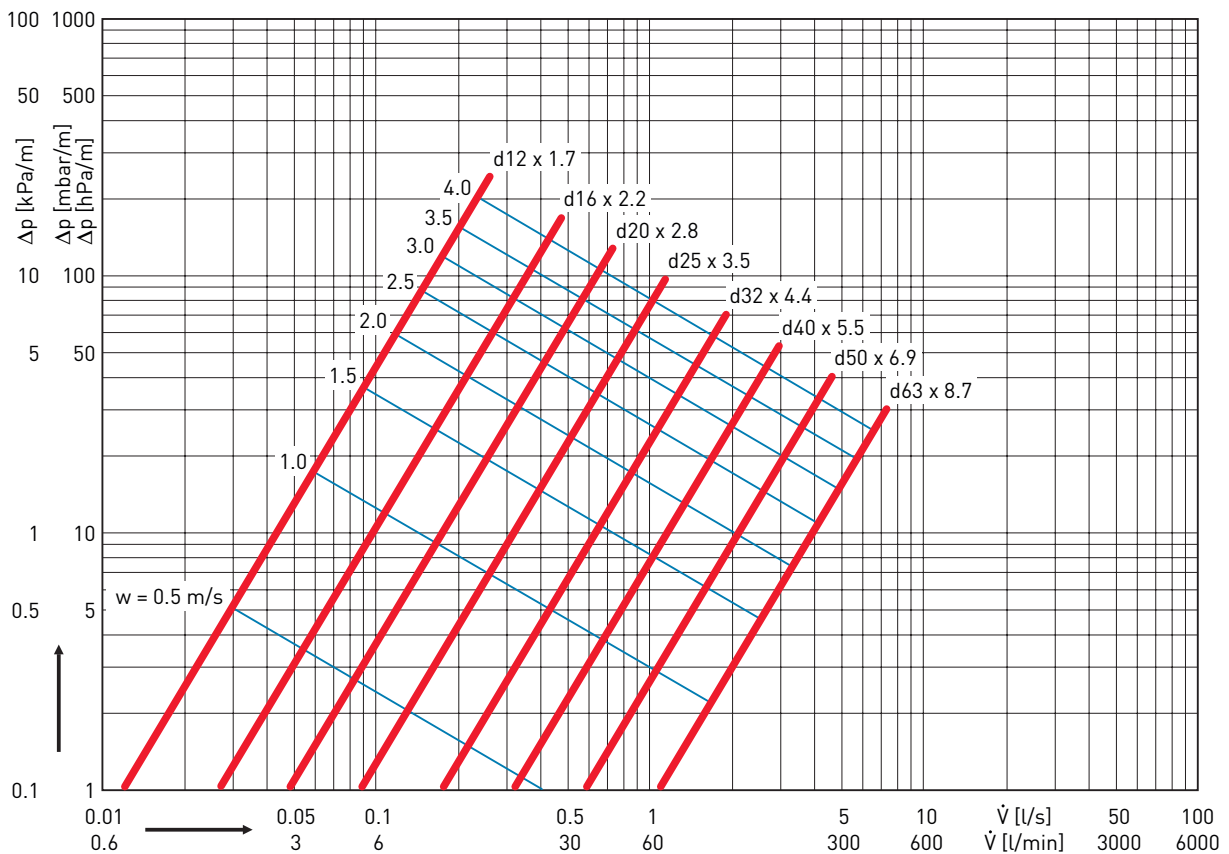
Caduta di pressione per attrito del tubo a dipendenza del flusso volumetrico:

Base di calcolo:

Temperatura d'acqua	= 60°C
Rugosità del tubo k	= 0.007 mm
Viscosità	= 0.00013 Pa·s
Densità ρ	= 983.19 kg/m ³

Portata consigliata dal SSIGA politica W3/2013:

- max. 4.0 m/s per linee di getto
- max. 3.0 m/s per gruppi di apparecchiature
- max. 3.0 m/s per linee di piano
- max. 2.0 m/s per linee di distribuzione



JRG Sanipex classic (60°C)

Pressure loss chart for Sanipex pipes:

Pipe friction loss in relation to flow rate

Basis of calculation:

Water temperature	= 60°C
Surface roughness k	= 0.007 mm
Viscosity	= 0.00013 Pa·s
Density ρ	= 983.19 kg/m ³

Recommended flow velocity according SVGW guideline W3/2013:

- max. 4.0 m/s for single outlet lines
- max. 3.0 m/s for apparatus lines
- max. 3.0 m/s for floor distribution lines
- max. 2.0 m/s for distribution lines

Diagramme des pertes de charge dans les tuyaux Sanipex:

Perte de charge par frottement dépendant du débit volumique:

Base de calcul:

Température d'eau	= 60°C
Rugosité des parois k	= 0.007 mm
Viscosité	= 0.00013 Pa·s
Densité ρ	= 983.19 kg/m ³

Débit recommandé pour la politique SSIGE W3/2013:

- max. 4.0 m/s pour conduite d'évacuation
- max. 3.0 m/s pour groupe d'appareils
- max. 3.0 m/s pour distribution d'étage
- max. 2.0 m/s pour conduite de distribution

Diagramma della perdita di carico per tubi Sanipex:

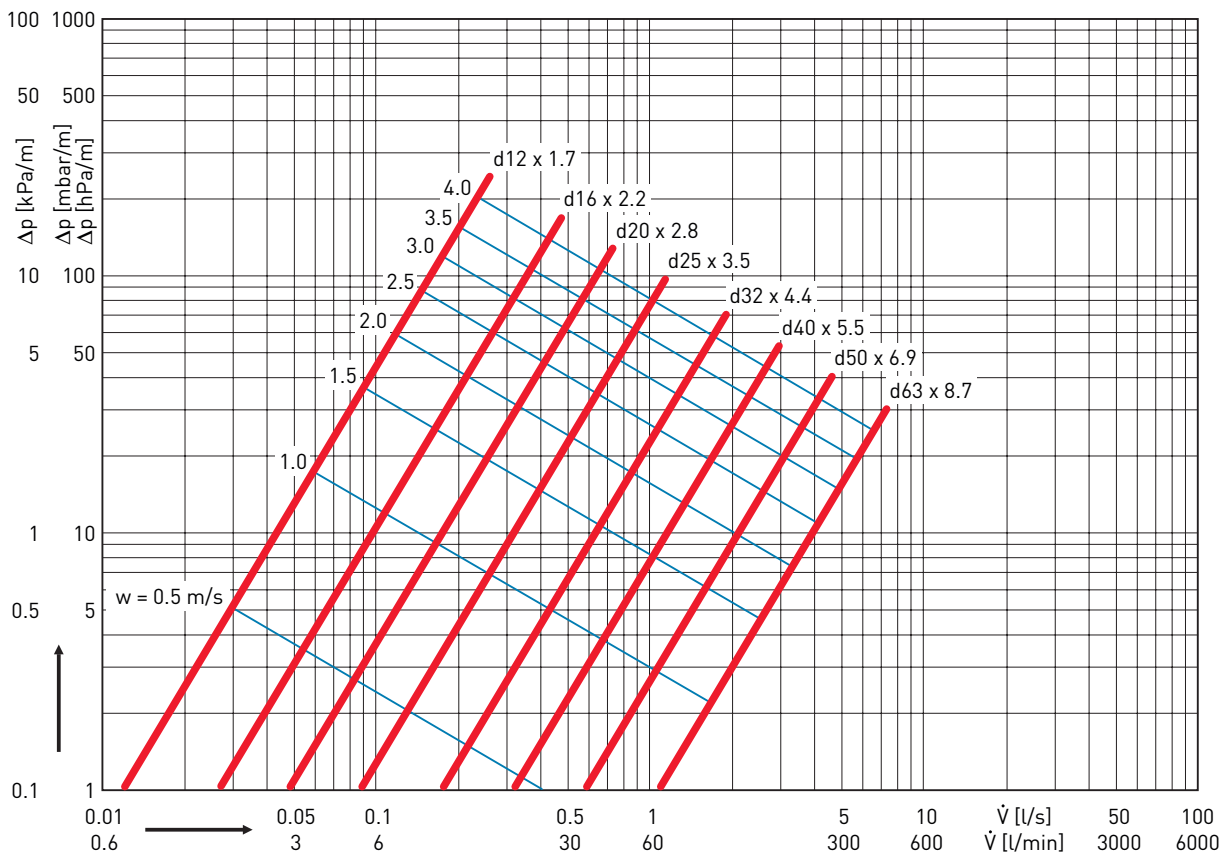
Caduta di pressione per attrito del tubo a dipendenza del flusso volumetrico:

Base di calcolo:

Temperatura d'acqua	= 60°C
Rugosità del tubo k	= 0.007 mm
Viscosità	= 0.00013 Pa·s
Densità ρ	= 983.19 kg/m ³

Portata consigliata dal SSIGA politica W3/2013:

- max. 4.0 m/s per linee di getto
- max. 3.0 m/s per gruppi di apparecchiature
- max. 3.0 m/s per linee di piano
- max. 2.0 m/s per linee di distribuzione



JRG Sanipex classic (60°C)

d	12		16		20		25		32		40		50		63	
DN	8		12		15		20		25		32		40		50	
V	v	R	v	R	v	R	v	R	v	R	v	R	v	R	v	R
[l/s]	[m/s]	[hPa/m]	[m/s]	[hPa/m]	[m/s]	[hPa/m]	[m/s]	[hPa/m]	[m/s]	[hPa/m]	[m/s]	[hPa/m]	[m/s]	[hPa/m]	[m/s]	[hPa/m]
0.01	0.2	0.7	0.1	0.2	0.1	0.1										
0.02	0.3	2.5	0.2	0.6	0.1	0.2	0.1	0.1								
0.03	0.5	5.1	0.3	1.2	0.2	0.4	0.1	0.1								
0.04	0.7	8.6	0.4	2.0	0.2	0.7	0.2	0.2	0.1	0.1						
0.05	0.9	12.8	0.5	3.0	0.3	1.1	0.2	0.4	0.1	0.1						
0.06	1.0	17.7	0.6	4.2	0.4	1.5	0.2	0.5	0.1	0.1	0.1	0.1				
0.07	1.2	23.3	0.7	5.5	0.4	1.9	0.3	0.7	0.2	0.2	0.1	0.1				
0.08	1.4	29.5	0.8	7.0	0.5	2.5	0.3	0.8	0.2	0.2	0.1	0.1				
0.09	1.5	36.4	0.9	8.6	0.6	3.0	0.4	1.0	0.2	0.3	0.1	0.1				
0.10	1.7	43.9	0.9	10.4	0.6	3.7	0.4	1.3	0.2	0.4	0.2	0.1				
0.15	2.6	90.5	1.4	21.4	0.9	7.6	0.6	2.6	0.4	0.8	0.2	0.3	0.1	0.1		
0.20	3.4	151.1	1.9	35.8	1.2	12.6	0.8	4.3	0.5	1.3	0.3	0.4	0.2	0.1		
0.25	4.3	224.9	2.4	53.2	1.5	18.8	1.0	6.4	0.6	1.9	0.4	0.6	0.2	0.2	0.2	0.1
0.30	5.2	311.3	2.8	73.7	1.8	26.0	1.2	8.9	0.7	2.6	0.5	0.9	0.3	0.3	0.2	0.1
0.35			3.3	97.0	2.1	34.2	1.4	11.7	0.8	3.4	0.5	1.2	0.3	0.4	0.2	0.1
0.40			3.8	123.0	2.5	43.4	1.6	14.8	0.9	4.4	0.6	1.5	0.4	0.5	0.2	0.2
0.45			4.3	151.8	2.8	53.6	1.8	18.3	1.1	5.4	0.7	1.8	0.4	0.6	0.3	0.2
0.50			4.7	183.1	3.1	64.6	2.0	22.1	1.2	6.5	0.8	2.2	0.5	0.8	0.3	0.3
0.55			5.2	217.0	3.4	76.6	2.2	26.2	1.3	7.7	0.8	2.6	0.5	0.9	0.3	0.3
0.60					3.7	89.5	2.4	30.6	1.4	9.0	0.9	3.1	0.6	1.1	0.4	0.3
0.65					4.0	103.2	2.6	35.2	1.5	10.4	1.0	3.5	0.6	1.2	0.4	0.4
0.70					4.3	117.7	2.8	40.2	1.7	11.8	1.1	4.0	0.7	1.4	0.4	0.5
0.75					4.6	133.2	2.9	45.5	1.8	13.4	1.1	4.6	0.7	1.6	0.5	0.5
0.80					4.9	149.4	3.1	51.0	1.9	15.0	1.2	5.1	0.8	1.8	0.5	0.6
0.85					5.2	166.4	3.3	56.8	2.0	16.7	1.3	5.7	0.8	2.0	0.5	0.6
0.90							3.5	62.9	2.1	18.5	1.4	6.3	0.9	2.2	0.6	0.7
0.95							3.7	69.3	2.2	20.4	1.4	7.0	0.9	2.4	0.6	0.8
1.00							3.9	75.9	2.4	22.4	1.5	7.6	1.0	2.6	0.6	0.9
1.05							4.1	82.8	2.5	24.4	1.6	8.3	1.0	2.9	0.6	0.9
1.10									2.6	26.5	1.7	9.1	1.1	3.1	0.7	1.0
1.15									2.7	28.7	1.7	9.8	1.1	3.4	0.7	1.1
1.20									2.8	31.0	1.8	10.6	1.2	3.6	0.7	1.2
1.25									3.0	33.3	1.9	11.4	1.2	3.9	0.8	1.3
1.30									3.1	35.7	2.0	12.2	1.3	4.2	0.8	1.4
1.35									3.2	38.2	2.0	13.0	1.3	4.5	0.8	1.5
1.40									3.3	40.7	2.1	13.9	1.4	4.8	0.9	1.6
1.45									3.4	43.4	2.2	14.8	1.4	5.1	0.9	1.7
1.50									3.5	46.1	2.3	15.7	1.5	5.4	0.9	1.8
1.55									3.7	48.8	2.3	16.7	1.5	5.7	0.9	1.9
1.60									3.8	51.7	2.4	17.7	1.6	6.1	1.0	2.0
1.65									3.9	54.6	2.5	18.6	1.6	6.4	1.0	2.1
1.70									4.0	57.6	2.6	19.7	1.7	6.8	1.0	2.2
1.75											2.6	20.7	1.7	7.1	1.1	2.3
1.80											2.7	21.8	1.7	7.5	1.1	2.5
1.85											2.8	22.9	1.8	7.9	1.1	2.6
1.90											2.9	24.0	1.8	8.2	1.2	2.7
1.95											3.0	25.1	1.9	8.6	1.2	2.8
2.00											3.0	26.3	1.9	9.0	1.2	3.0
2.10													2.0	9.9	1.3	3.2
2.20													2.1	10.7	1.3	3.5
2.30													2.2	11.6	1.4	3.8
2.40													2.3	12.5	1.5	4.1
2.50													2.4	13.4	1.5	4.4
2.60													2.5	14.4	1.6	4.7
2.70													2.6	15.4	1.7	5.1
2.80													2.7	16.4	1.7	5.4
2.90													2.8	17.5	1.8	5.8
3.00													2.9	18.6	1.8	6.1
3.10													3.0	19.7	1.9	6.5
3.20															2.0	6.9
3.30															2.0	7.3
3.40															2.1	7.6
3.50															2.1	8.1
3.60															2.2	8.5
3.70															2.3	8.9
3.80															2.3	9.3
3.90															2.4	9.8
4.00															2.4	10.2
4.10															2.5	10.7
4.20															2.6	11.1
4.30															2.6	11.6
4.40															2.7	12.1
4.50															2.8	12.6
4.60															2.8	13.1
4.70															2.9	13.6
4.80															2.9	14.1
4.90															3.0	14.7