

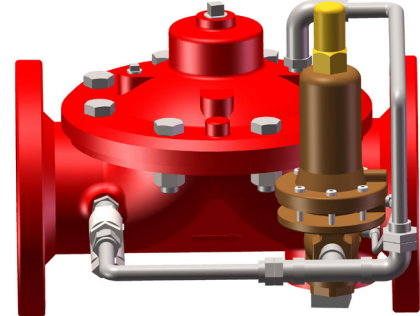


Pressure Reducing Valve

Fig.505

Specifications

- Pressure Reducing Valves automatically reduce a higher inlet pressure to a steady lower outlet pressure regardless of changing flow rate and/or varying inlet pressure.
- Operates over a wide flow range.
- Set pressure is adjustable via a single adjustment screw on the pressure reducing pilot valve.
- Can be maintained without removal from the pipe line.
- Flanged to EN1092-2 PN10/PN16, ANSI B16.1 Class 125. (other available on request)
- Grooved ends to AWWA C606 Standard.
- Adjustment range of outlet pressure: 4.5 to 11.4 bar(65 to 165 psi)



Working Pressure

Maximum working pressure 20.7bar (300 psi)

Set Pressure

Factory pre-set outlet pressure to 8.5 bar (125 psi)

Temperature Range

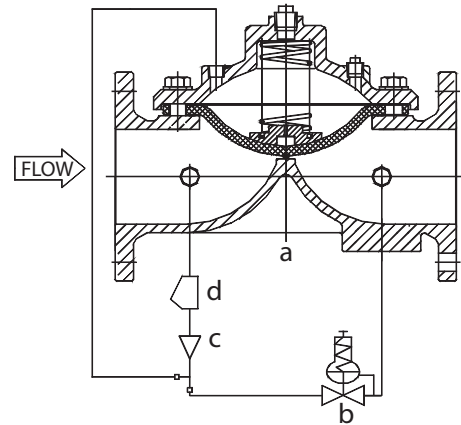
0°C to 87°C (32°F to 188°F)

Coating

Fusion Bonded Epoxy Coating in accordance with ANSI /AWWA C550

Material Specification

No	Description	Materials	Specifications
1	Body	Ductile Iron	A536 Grade 65-45-12
2	Bonnet	Ductile Iron	A536 Grade 65-45-12
3	Diaphragm	Nylon Reinforced Natural Rubber	/
4	Spring Retainer	Ductile Iron	A536 Grade 65-45-12
5	Spring	Stainless Steel	A276 Grade 304
6	Galvanized Bolt	Carbon Steel	A307 Grade B
7	Galvanized Washer	Carbon Steel	A307 Grade B
8	Pipework	Stainless Steel	AISI 304
9	Pilot Body	Bronze	



Dimensions & Flow Range

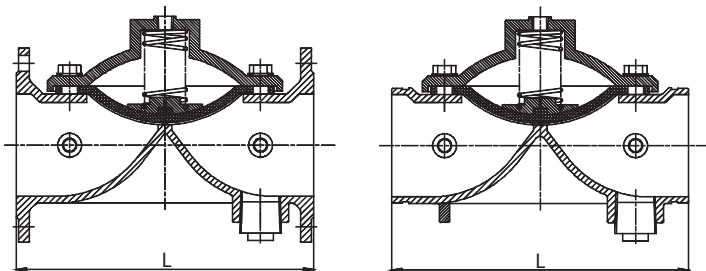
Sizes		Flow Range L/min	Ordering Codes		
mm	inch		PN16 Flange	ANSI Flange	Grooved
DN50	2"	150 - 750	RD505FF-050	RD505FF-050A	RD505GG-050
DN65	2 1/2"	184 - 950	RD505FF-065	RD505FF-065A	RD505GG-065
DN80	3"	300 - 1516	RD505FF-080	RD505FF-080A	RD505GG-080
DN100	4"	565 - 2833	RD505FF-100	RD505FF-100A	RD505GG-100
DN125	5"	817 - 4283	RD505FF-125	RD505FF-125A	RD505GG-125
DN150	6"	1050 - 5283	RD505FF-150	RD505FF-150A	RD505GG-150
DN200	8"	1883 - 5683	RD505FF-200	RD505FF-200A	RD505GG-200
DN250	10"	3233 - 16183	RD505FF-250	RD505FF-250A	RD505GG-250

Dimensions

Sizes		Dimension L
mm	inch	mm (inch)
DN50	2"	233mm (9")
DN65	2 1/2"	290mm (11.5")
DN80	3"	310mm (12.2")
DN100	4"	356mm (14")
DN125	5"	370mm (14.5")
DN150	6"	436mm (17.2")
DN200	8"	530mm (20.8")
DN250	10"	636mm (25")

Components

No	Component
a	Main Valve
b	Pressure Reducing Pilot
c	Restriction Orifice
d	Y-Strainer



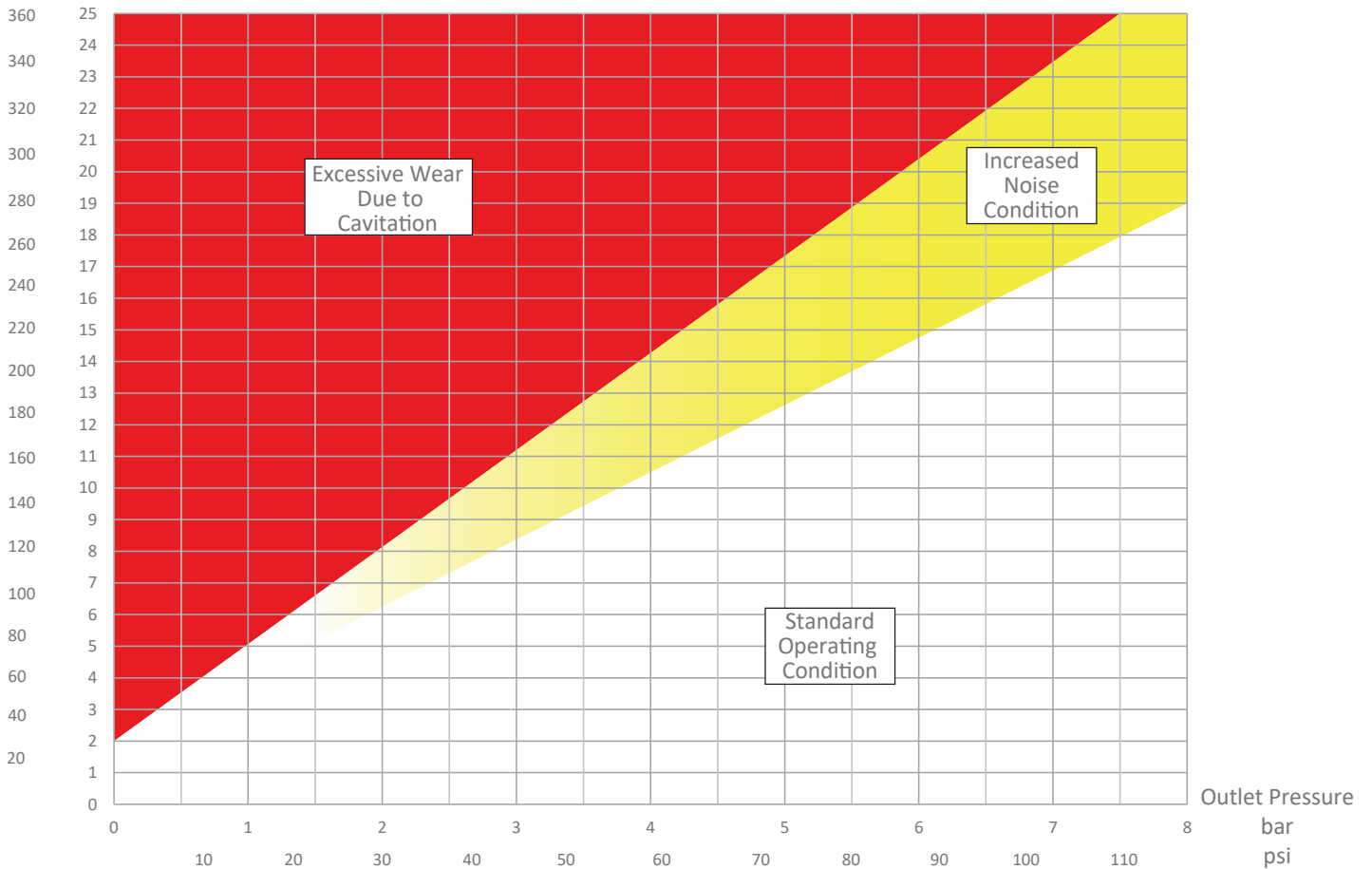


Pressure Reducing Valve
Fig.505

Cavitation Chart

Inlet Pressure

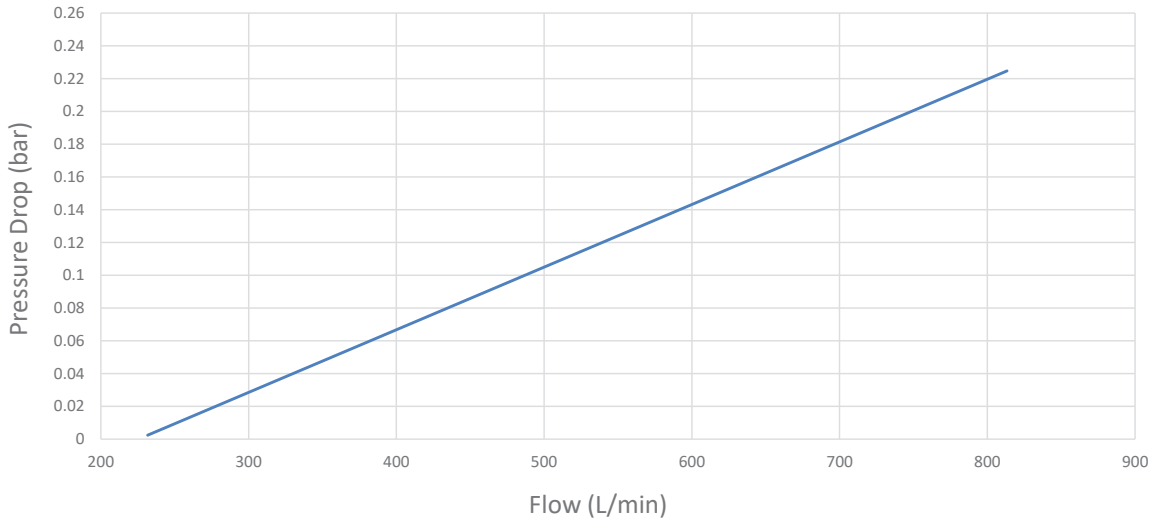
psi bar





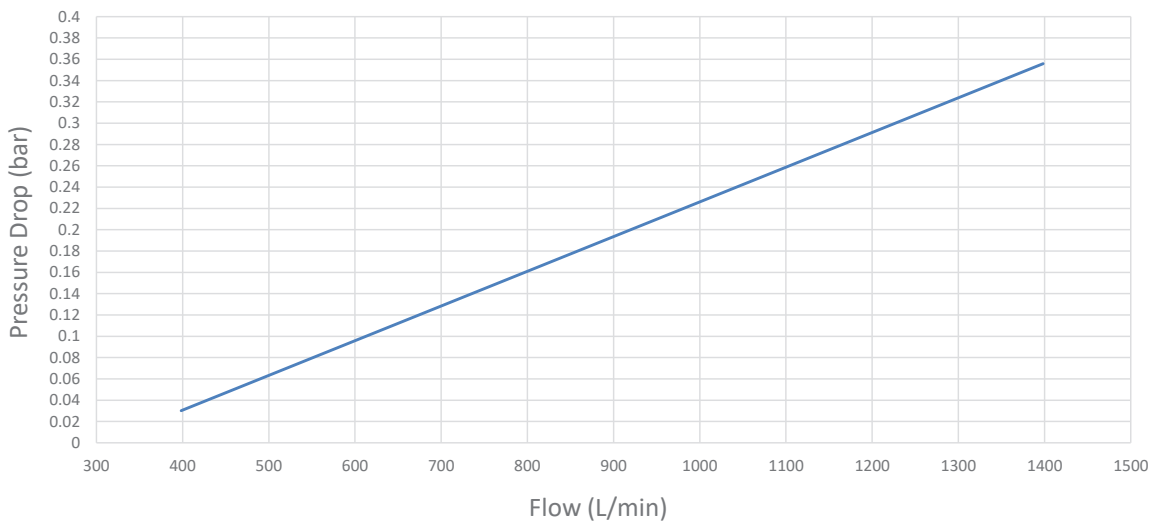
Pressure Reducing Valve Fig.505

DN50 2" Performance Chart



DN50 (2")	
Average KV	Average CV
98.5	115

DN65 2 1/2" Performance Chart

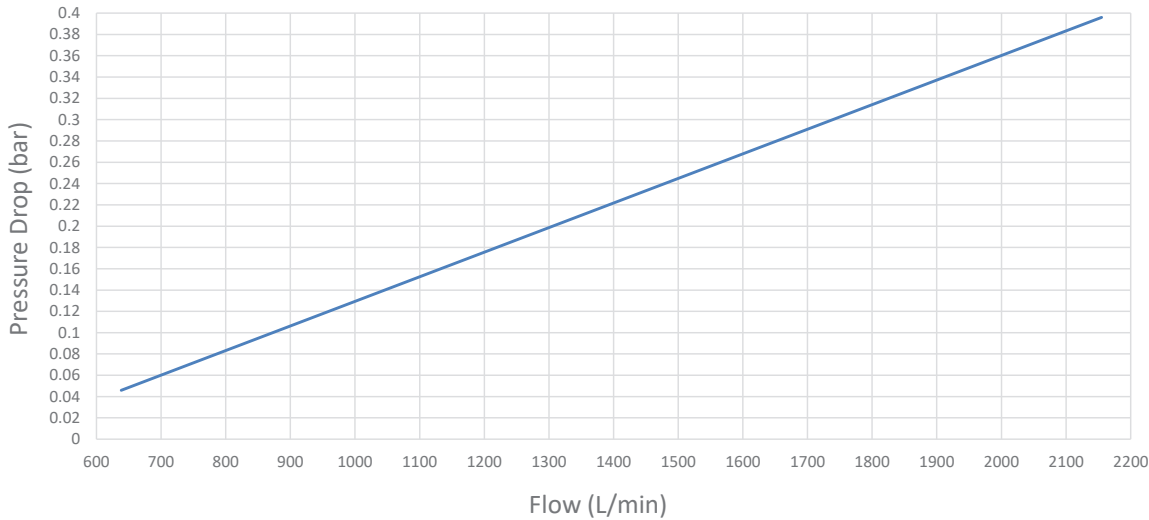


DN65 (2 1/2")	
Average KV	Average CV
126	147.1



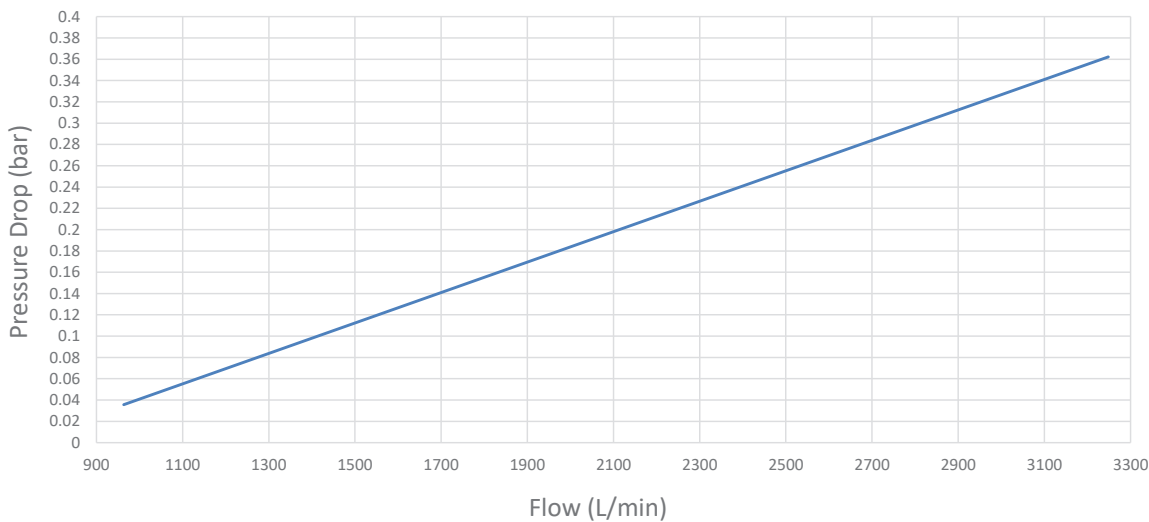
Pressure Reducing Valve
Fig.505

DN80 3" Performance Chart



DN80 (3")	
Average KV	Average CV
181.1	211.3

DN100 4" Performance Chart

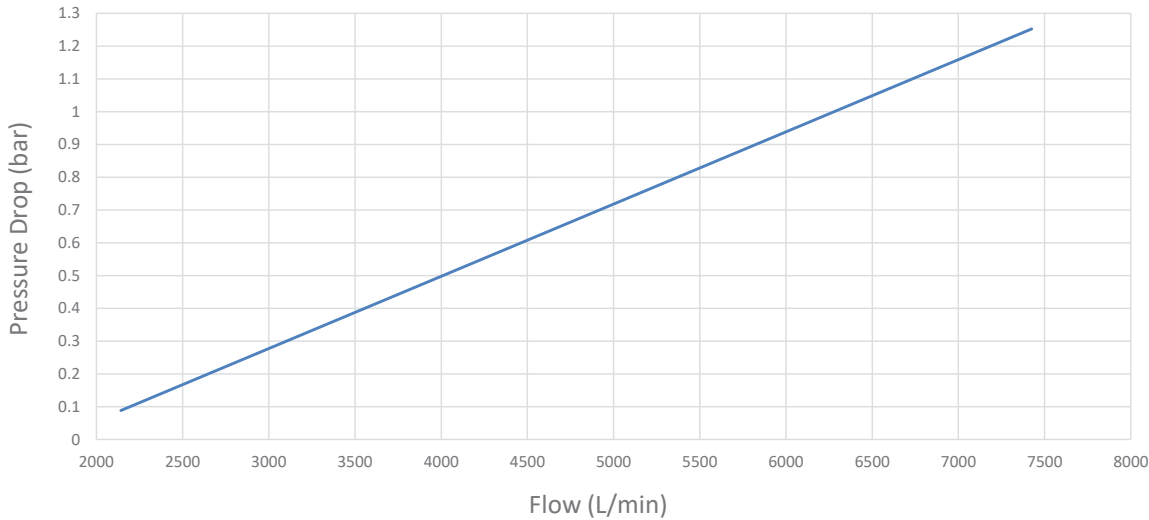


DN100 (4")	
Average KV	Average CV
286.7	334.5



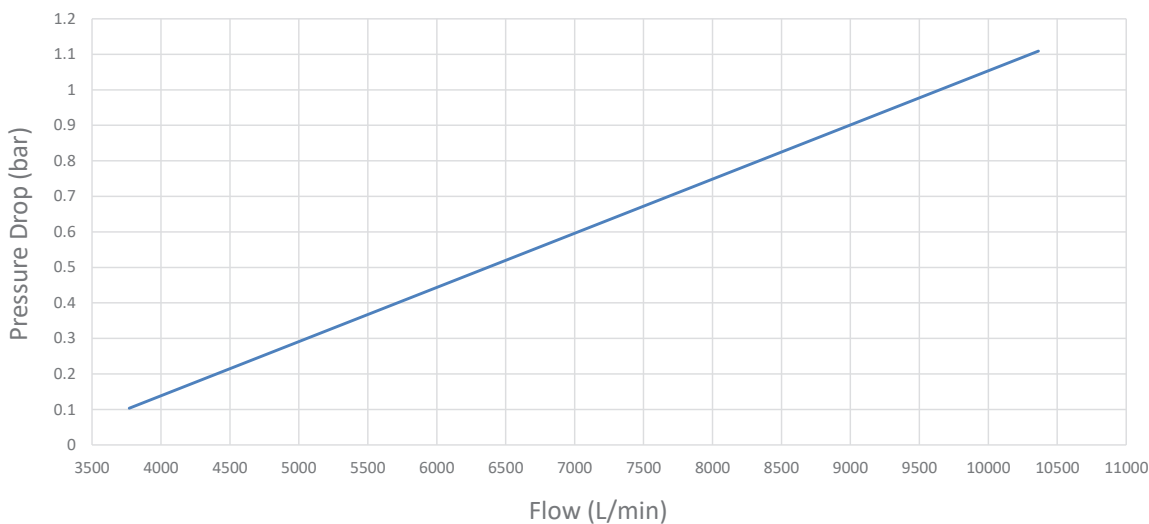
Pressure Reducing Valve
Fig.505

DN150 6" Performance Chart



DN150 (6")	
Average KV	Average CV
362.7	423.3

DN200 8" Performance Chart

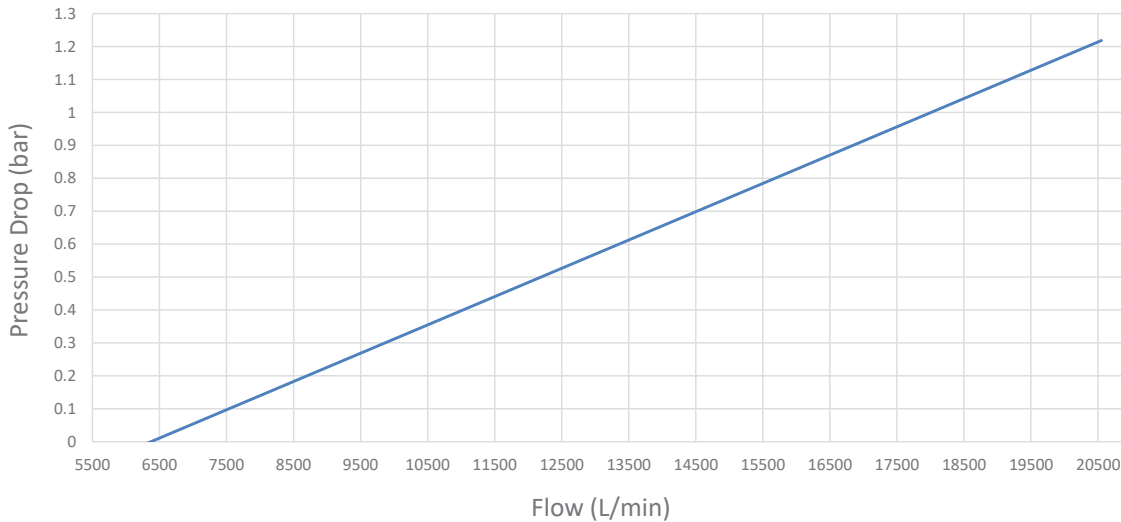


DN200 (8")	
Average KV	Average CV
571.6	667.1



Pressure Reducing Valve
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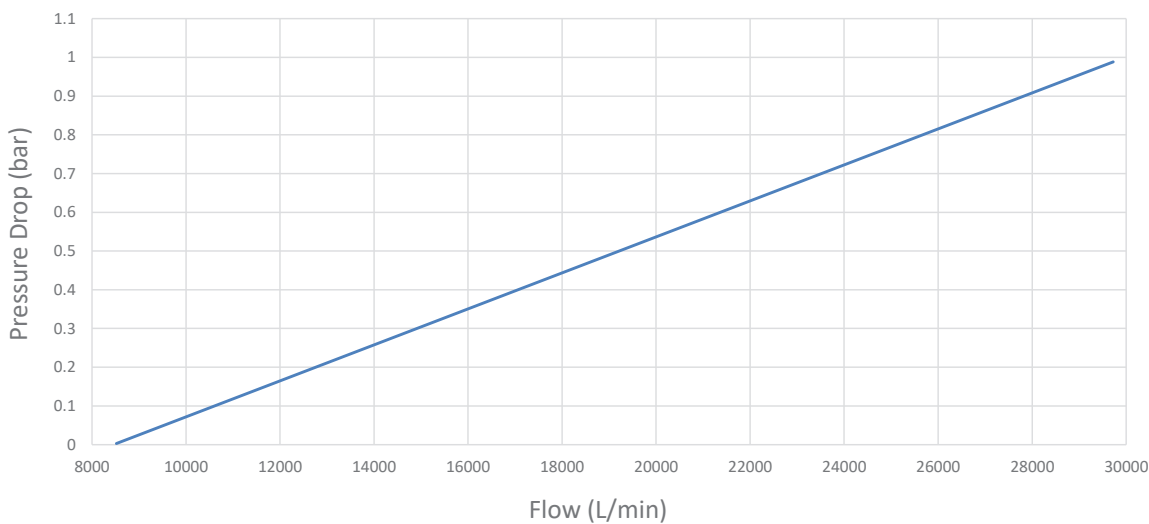
DN250 10" Performance Chart



DN250 (10")

Average KV	Average CV
1118.7	1305.5

DN300 12" Performance Chart



DN300 (12")

Average KV	Average CV
1742.1	2033