

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)

Temperature Range

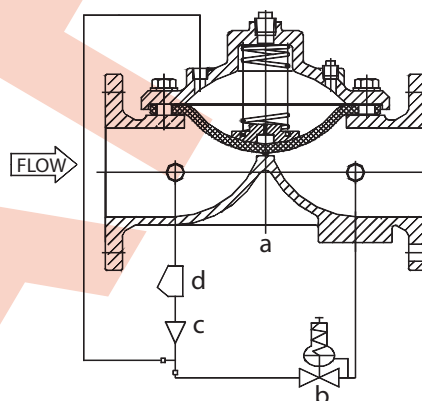
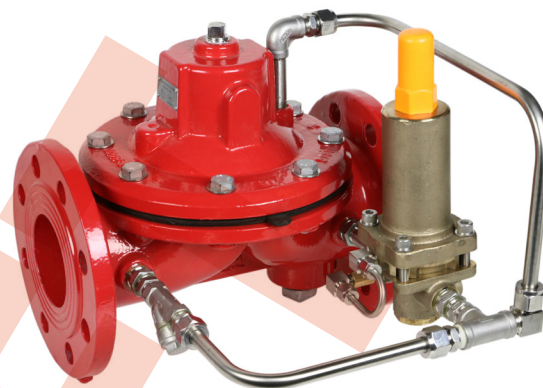
0°C to 87°C (32°F to 188°F)

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

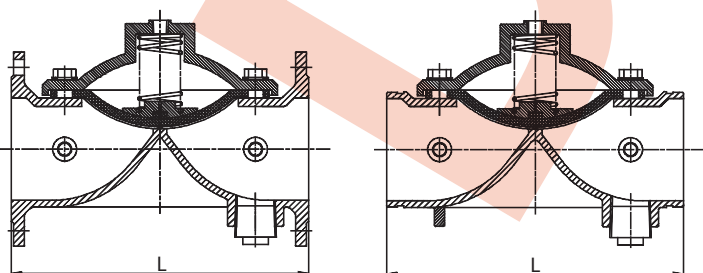
Sizes		Flow Range L/min	Ordering Codes		
mm	inch		PN16 Flange	ANSI Flange	Grooved
DN50	2"	150 - 750	RD505FF-050	RD505FF-050A	RD505GG-050
DN65	2 1/2"	184 - 950	RD505FF-065	RD505FF-065A	RD505GG-065
DN80	3"	300 - 1516	RD505FF-080	RD505FF-080A	RD505GG-080
DN100	4"	565 - 2833	RD505FF-100	RD505FF-100A	RD505GG-100
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



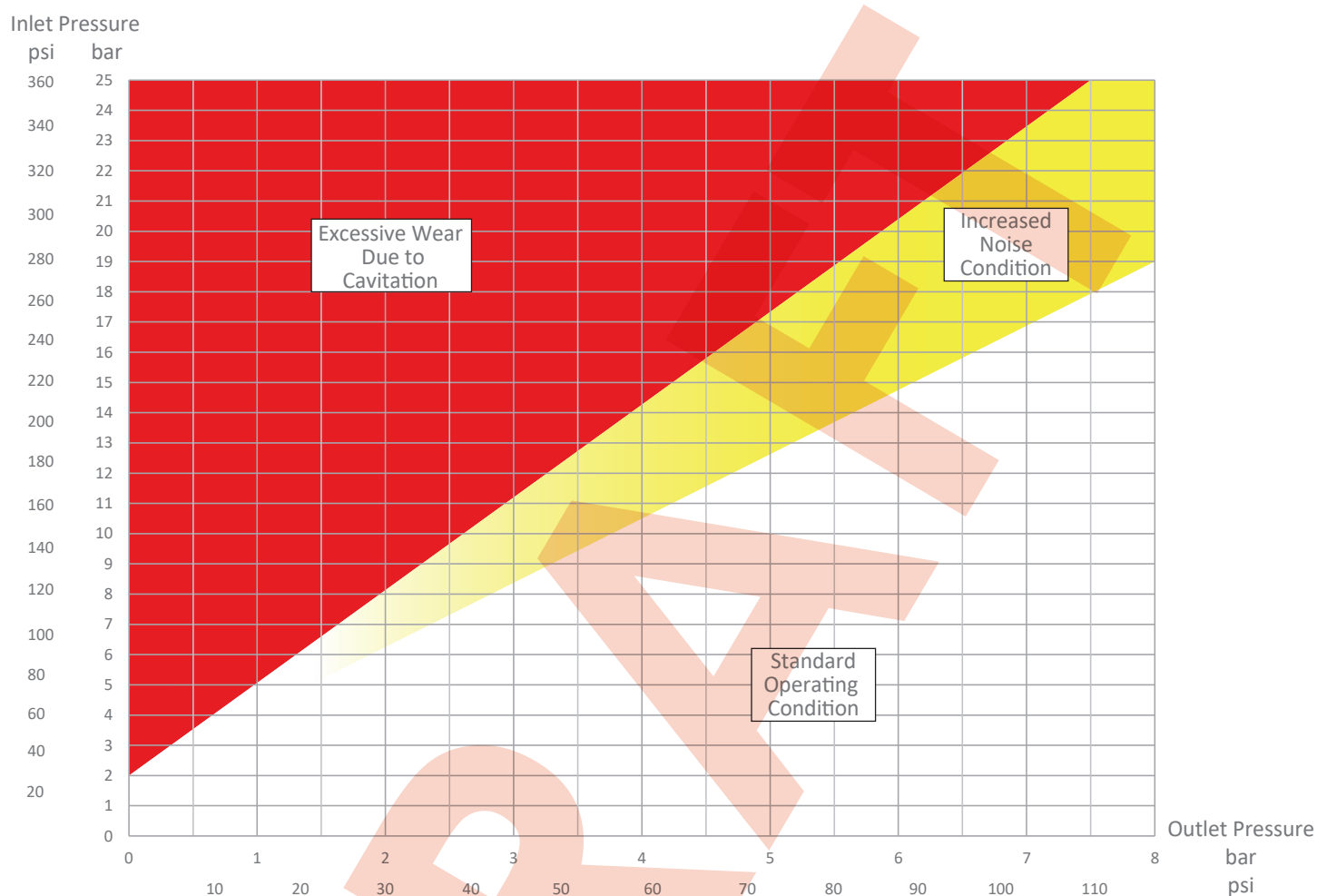


Data Sheet 10.60 Issue C



Pressure Reducing Valve Fig.505

Cavitation Chart



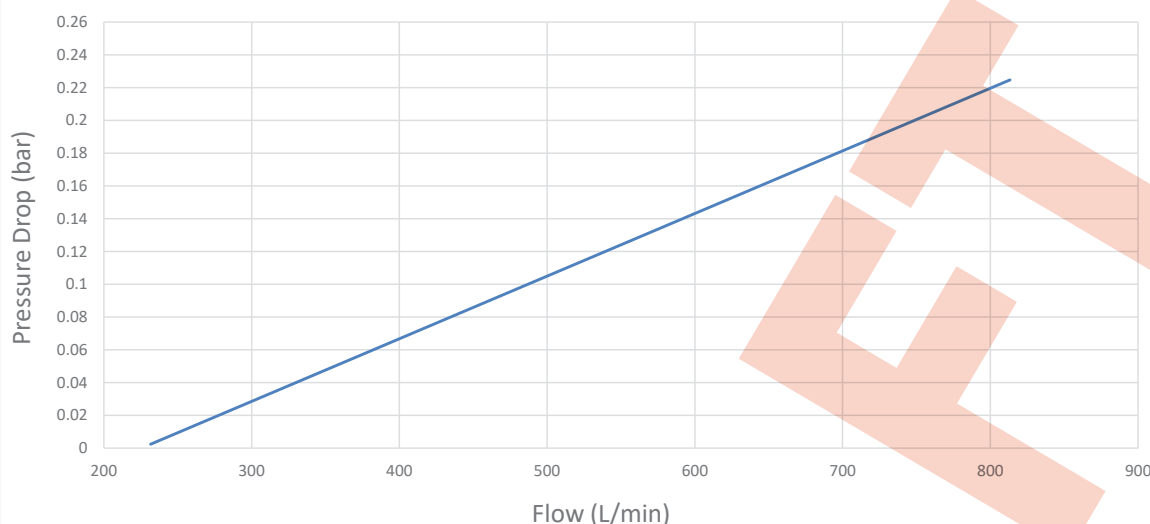


Data Sheet 10.60 Issue C



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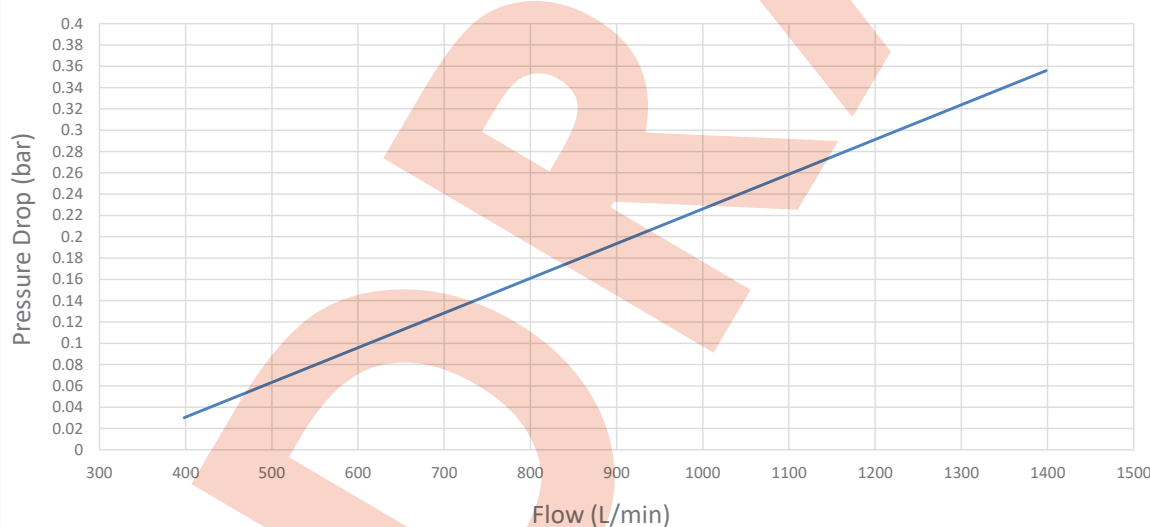
DN50 2" Performance Chart



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

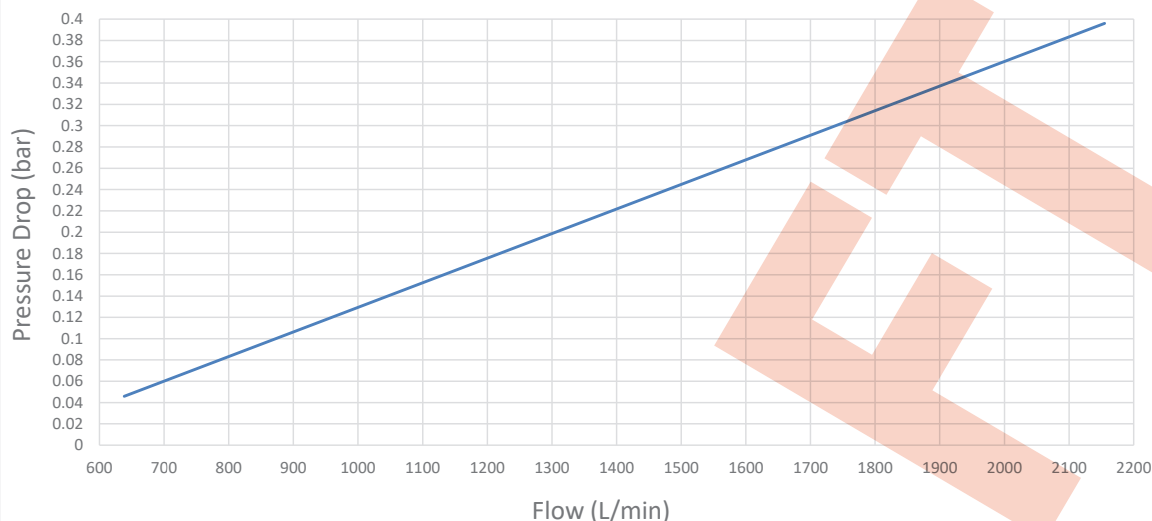


Data Sheet 10.60 Issue C



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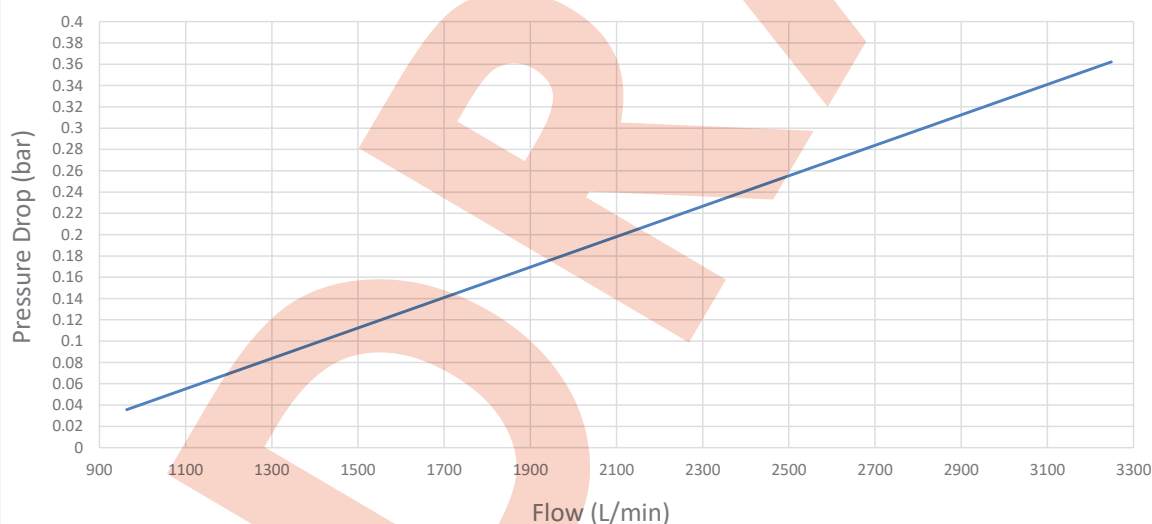
DN80 3" Performance Chart



DN80 (3")

Average KV	Average CV
181.1	211.3

DN100 4" Performance Chart



DN100 (4")

Average KV	Average CV
286.7	334.5

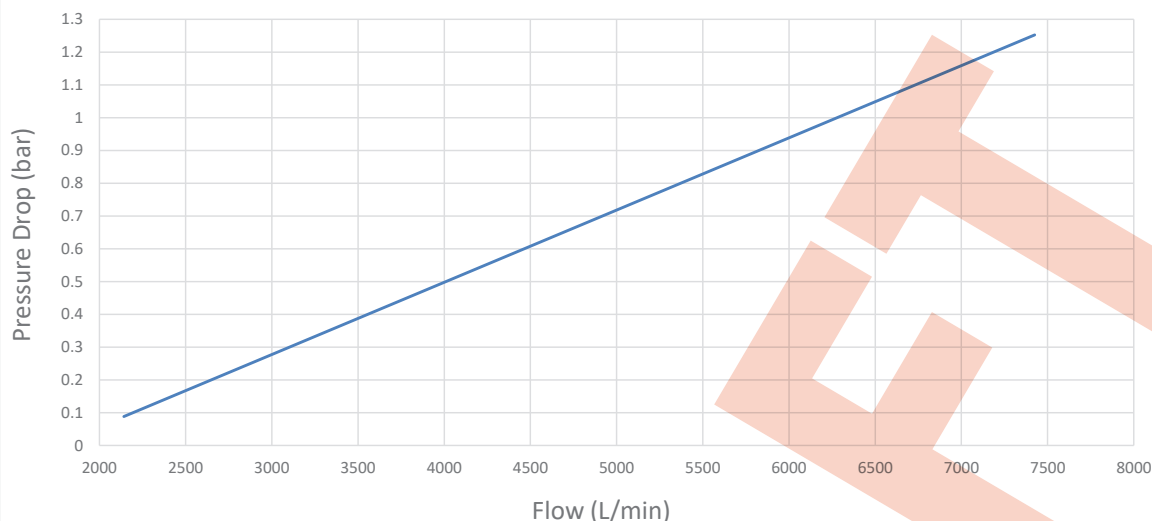


Data Sheet 10.60 Issue C



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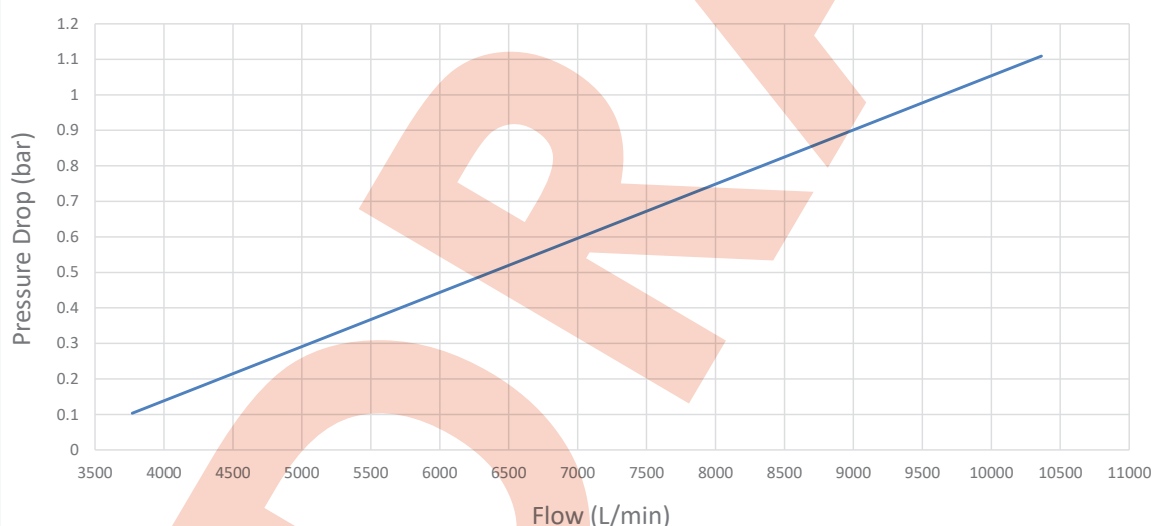
DN150 6" Performance Chart



DN150 (6")

Average KV	Average CV
362.7	423.3

DN200 8" Performance Chart



DN200 (8")

Average KV	Average CV
571.6	667.1

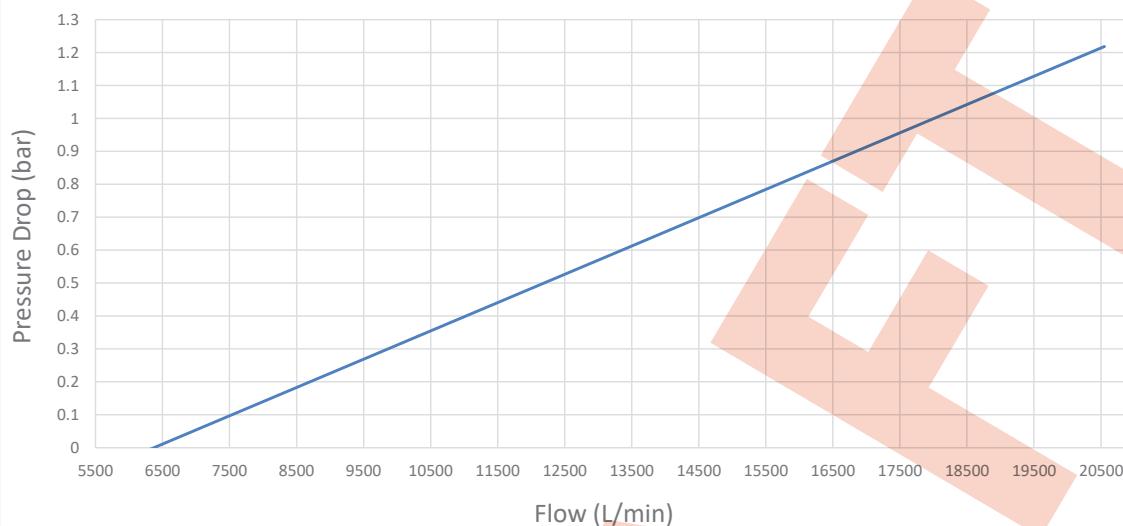


Data Sheet 10.60 Issue C



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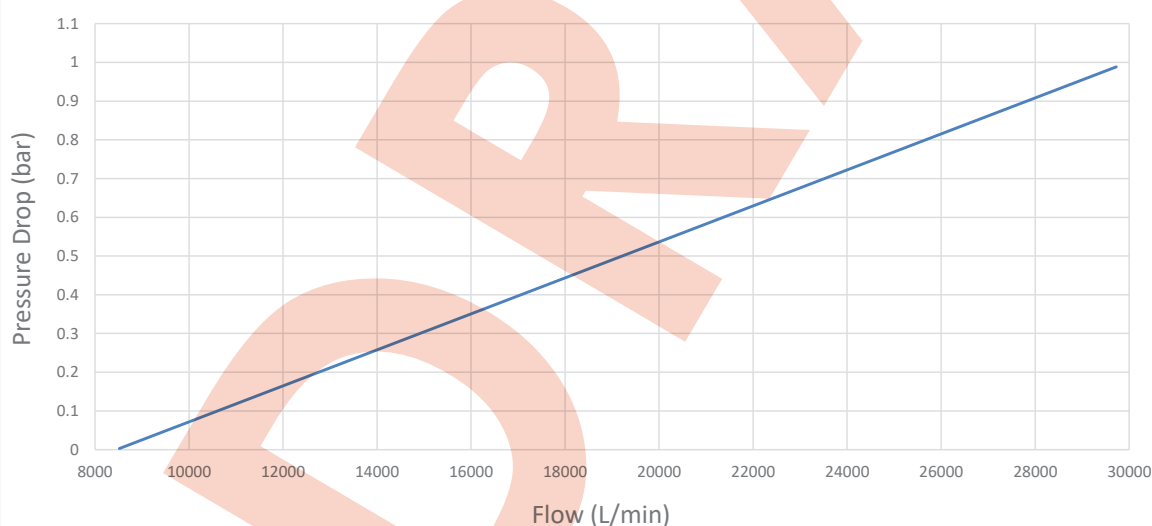
DN250 10" Performance Chart



DN250 (10")

Average KV	Average CV
1118.7	1305.5

DN300 12" Performance Chart



DN300 (12")

Average KV	Average CV
1742.1	2033