

NAF-Check Valves

DN 40 – 1000 mm, PN 10 – 100



Pressure Drop Chart

The curves given in the chart are valid for water at 20 °C. To read the pressure drop for other fluids the equivalent water volume flowrate must be calculated and used in the graph. The values indicated in the chart are applicable to valves with horizontal flow. With vertical flow insignificant deviations occur only within the range of partial openings.

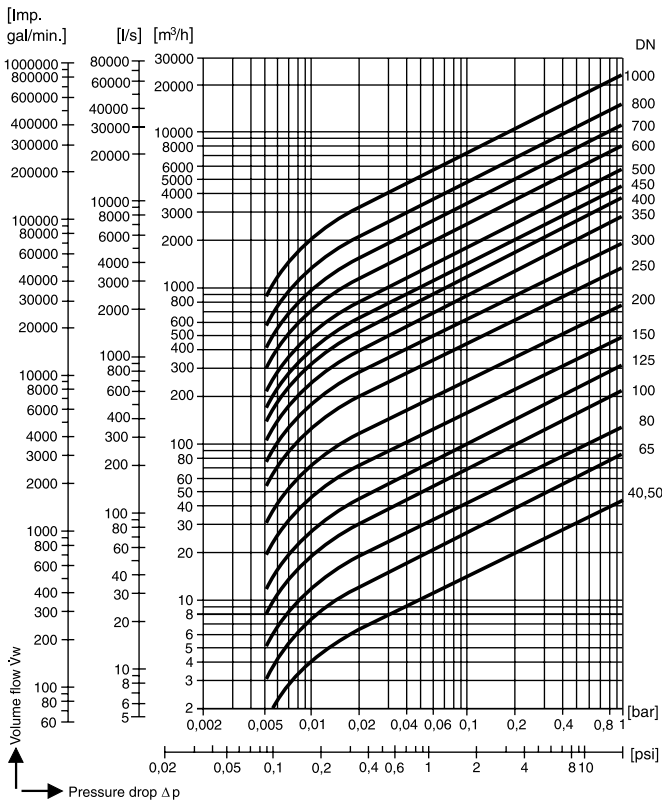
The chart and flow characteristics are available up to and including PN 40. Higher PN increase the zeta values and pressure drops at the same flowrates by approx. 20%. The k_{vs} values decrease accordingly.

$$\dot{V}_W = \dot{V} \cdot \sqrt{\frac{\rho}{1000}}$$

\dot{V}_W = Equivalent water volume flow in [l/s] or [m³/h]

ρ = Density of fluid (operating condition) in [kg/m³]

\dot{V} = Volume flow of fluid (operating condition) in [l/s] or [m³/h]



Stock codes

Material	Type	Nom. press. PN	Design	Nominal size		Stock code
				DN	inch	
Steel	526 620	10-40	without spring	40	1 1/2"	4481701
	526 620	10-40	without spring	50	2"	4481801
	526 620	10-40	without spring	65	2 1/2"	4481901
	526 620	10-40	without spring	80	3"	4482001
	526 620	10-40	without spring	100	4"	4482101
	526 620	10-40	without spring	125	5"	4482201
	526 620	10-40	without spring	150	6"	4482301
	526 620	10-40	without spring	200	8"	4482501
	526 620	10-40	without spring	250	10"	4482601
Steel	526 520	25	without spring	300	12"	4482702
	526 520	25	without spring	350	14"	4482802
	526 520	25	without spring	400	16"	4482902
	526 520	25	without spring	450	18"	4483002
	526 520	25	without spring	500	20"	4483102
	526 520	25	without spring	600-1000	24"-40"	on request
Steel	526 630	10-40	with spring	65	2 1/2"	4481903
	526 630	10-40	with spring	80	3"	4482003
	526 630	10-40	with spring	100	4"	4482103
	526 630	10-40	with spring	125	5"	4482203
	526 630	10-40	with spring	150	6"	4482303
	526 630	10-40	with spring	200	8"	4482503
	526 630	10-40	with spring	250	10"	4482603
Steel	526 530	25	with spring	300	12"	4482704
	527 530	25	with spring	350	14"	4482804
	528 530	25	with spring	400	16"	4482904
	529 530	25	with spring	450	18"	4483004
	530 530	25	with spring	500	20"	4483104
	531 530	25	with spring	600-1000	24"-40"	on request

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Material	Type	Nom. press. PN	Design	Nominal size		Stock code
				DN	inch	
Stainless steel	528 620	10-40	without spring	40	1½"	4481705
	528 620	10-40	without spring	50	2"	4481805
	528 620	10-40	without spring	65	2½"	4481905
	528 620	10-40	without spring	80	3"	4482005
	528 620	10-40	without spring	100	4"	4482105
	528 620	10-40	without spring	125	5"	4482205
	528 620	10-40	without spring	150	6"	4482305
	528 620	10-40	without spring	200	8"	4482505
	528 620	10-40	without spring	250	10"	4482605
Stainless steel	528 520	25	without spring	300	12"	4482706
	528 520	25	without spring	350	14"	4482806
	528 520	25	without spring	400	16"	4482906
	528 520	25	without spring	450	18"	4483006
	528 520	25	without spring	500	20"	4483106
Stainless steel	528 630	10-40	with spring	65	2½"	4481907
	528 630	10-40	with spring	80	3"	4482007
	528 630	10-40	with spring	100	4"	4482107
	528 630	10-40	with spring	125	5"	4482207
	528 630	10-40	with spring	150	6"	4482307
	528 630	10-40	with spring	200	8"	4482507
	528 630	10-40	with spring	250	10"	4482607
Stainless steel	528 530	25	with spring	300	12"	4482708
	528 530	25	with spring	350	14"	4482808
	528 530	25	with spring	400	16"	4482908
	528 530	25	with spring	450	18"	4483008
	528 530	25	with spring	500	20"	4483108
	528 530	25	with spring	600-1000	24"-40"	on request

Material	Type	Nom. press. PN	Design	Nominal size		Stock code
				DN	inch	
High-temperature steel	526 822	40-100	without spring	65	2½"	4481909
	526 822	40-100	without spring	80	3"	4482009
	526 822	40-100	without spring	100	4"	4482109
	526 822	40-100	without spring	125	5"	4482209
	526 822	40-100	without spring	150	6"	4482309
	526 822	40-100	without spring	200	8"	4482509
	526 822	40-100	without spring	250	10"	4482609
	526 822	40-100	without spring	300	12"	4482709
	526 822	40-100	without spring	350	14"	4482809
	526 822	40-100	without spring	400	16"	4482909
	High-temperature steel	526 832	40-100	with spring	65	2½"
526 832		40-100	with spring	80	3"	4482010
526 832		40-100	with spring	100	4"	4482110
526 832		40-100	with spring	125	5"	4482210
526 832		40-100	with spring	150	6"	4482310
526 832		40-100	with spring	200	8"	4482510
526 832		40-100	with spring	250	10"	4482610
526 832		40-100	with spring	300	12"	4482710
526 832		40-100	with spring	350	14"	4482810
526 832		60/63	with spring	400	16"	4482910