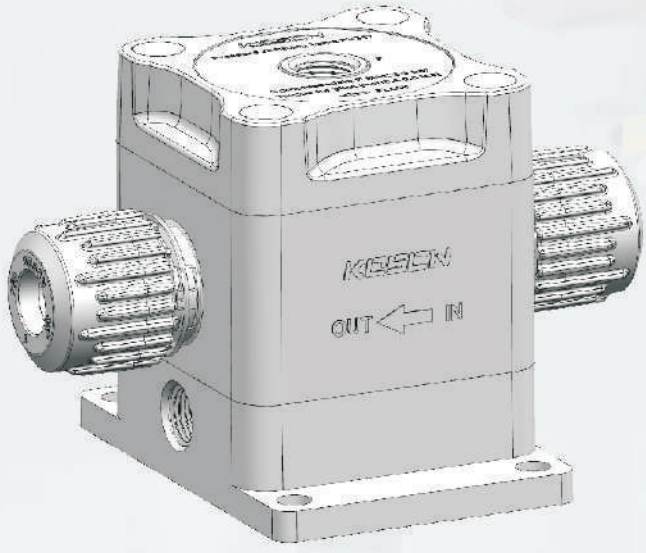
KOSCN Instruments

PV 317

Pressure Reducing Valve



KOSCN PV317 pressure reducing valve is a functional valve that adjusts the variable pressure of the chemical liquid and pure water supply department to a stable pressure by manual or pilot air source control. That is to balance the pressure pulsation, to ensure that the pressure behind the valve is constant. It has stable and low vibration control characteristics, and has good repeatability of regulating pressure. This series is not intended for use as a standard safety feature for pressure vessels.

Easy installation and maintenance

* Compact design, easy installation, no maintenance
* Pilot operated control port on top for easy connection
* UNF standard thread, fit and interchangeability is higher

High safety performance

* The ultimate withstand pressure can reach 10bar
* Can effectively balance the pressure pulsation, to ensure that the outlet pressure is constant
* Meet FDA 177-1520/177-1550 dissolution test requirements
* UHP's ultra-pure products comply with SEMI F057 standards
* Pilot valve with clean filter device

Performance feature

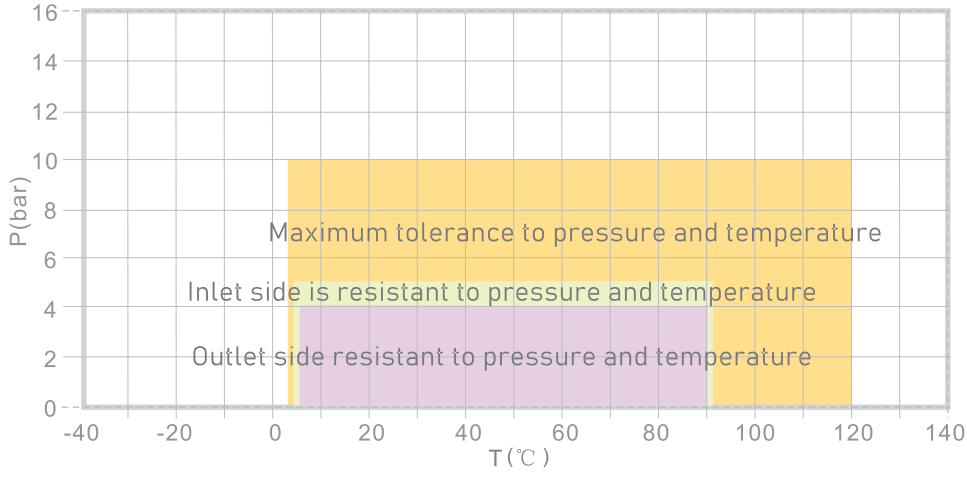
* Pressure setting 0.2... 4.0 bar
* Maximum and minimum secondary pressure difference 0.05 bar
* Hysteresis pressure 0.05bar
* Pilot operated pressure reducing valve control pressure P MAX 6 bar

Technical characteristics

Pressure temperature curve

All data based on water for conside -ring 25 years safe life time

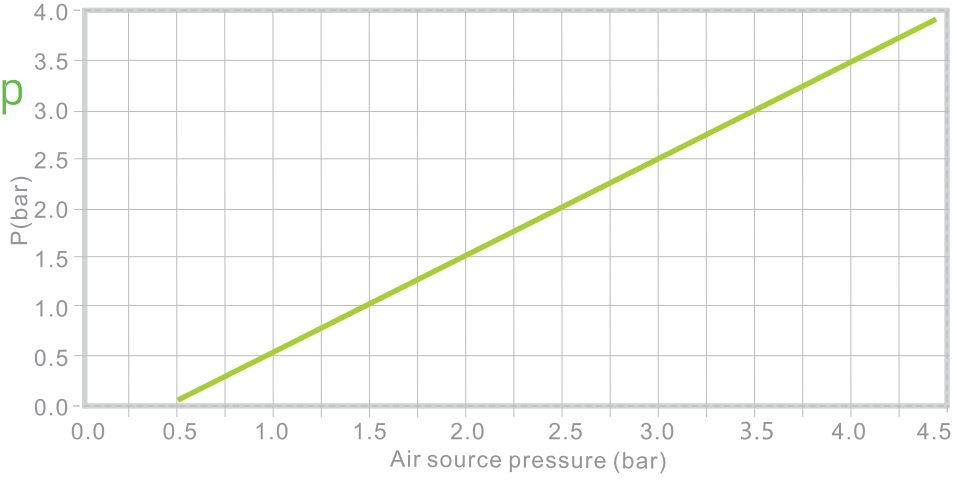
Other liquids request to reduce the temperature and pressure accordingly



Pilot-operated pressure relationship

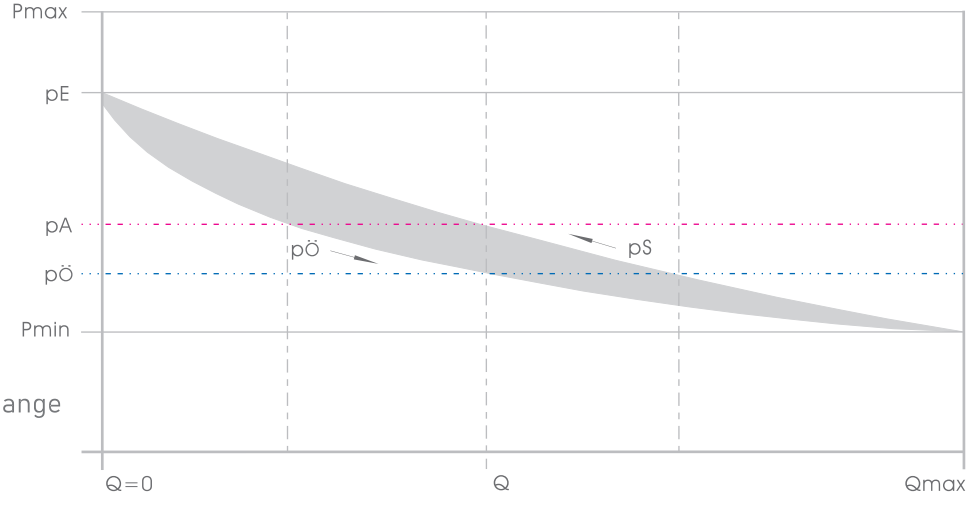
Based on 5bar clean water medium at the entrance

The pilot input pressure and the outlet pressure reduction are relatively linear



Operating characteristics

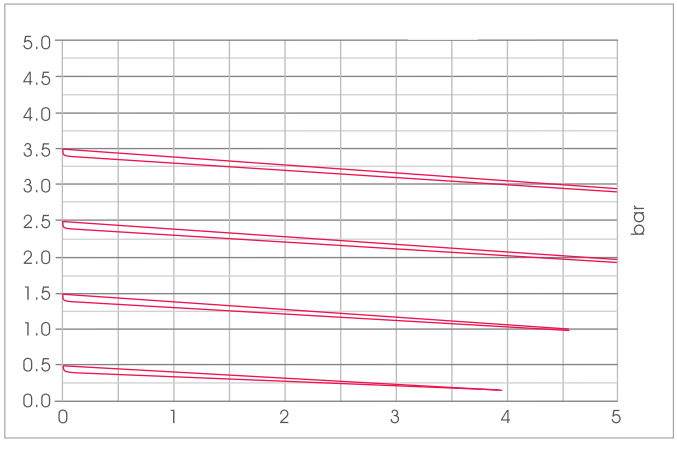
Pmax	Maximum pressure
Pmin	Minimum pressure
pE	Set pressure
pA	Working pressure
pÖ	Opening pressure
pS	Closing pressure
pÖ - pS	Lag pressure
pA - pE	Pressure drop of flow change



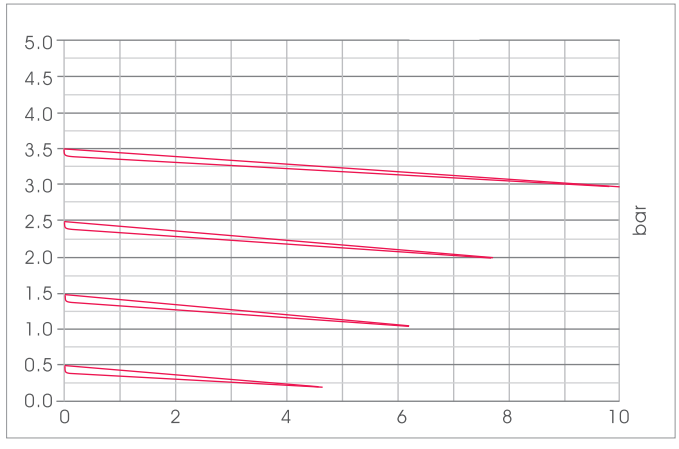
Working pressure and relative flow rate

The curve shows the data of pressure change with flow rate. The starting point of the curve is the set pressure at the flow rate Q = 0 l/Min.
Outlet pressure: bar

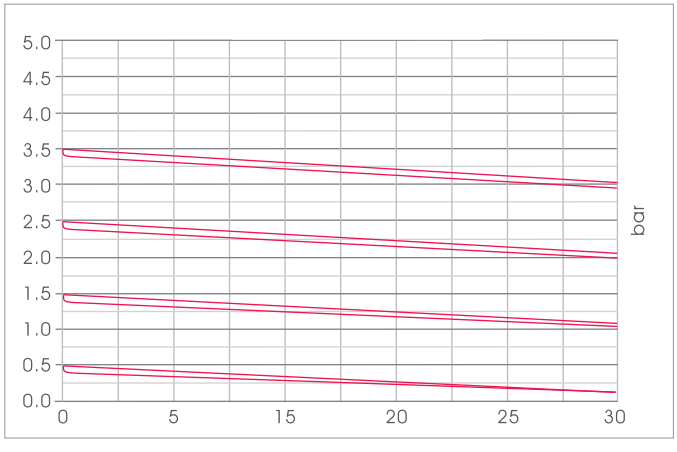
1/4"



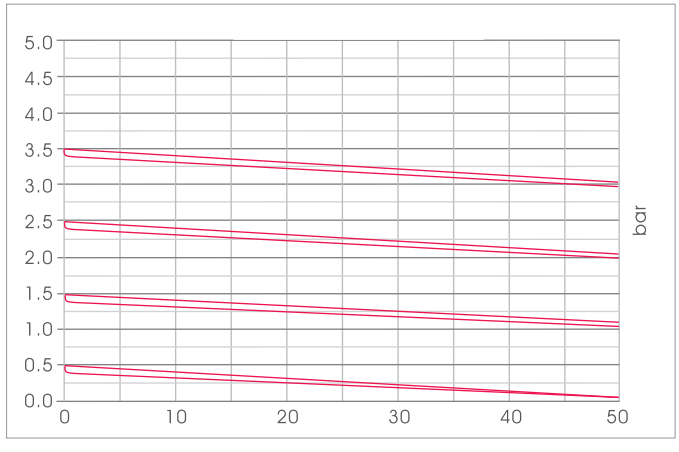
3/8"



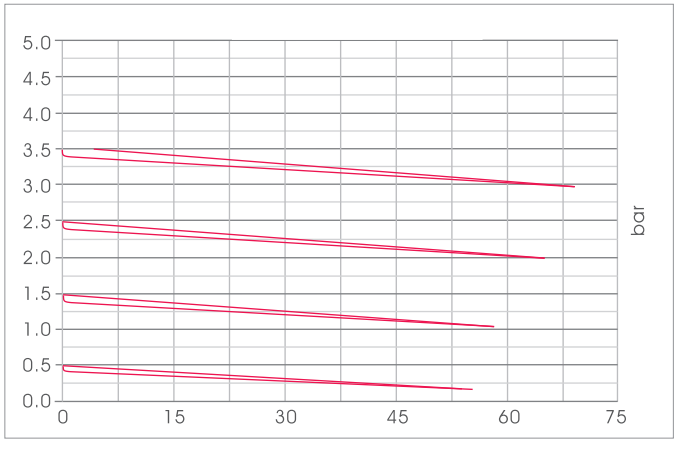
1/2"



3/4"



1"



Order code

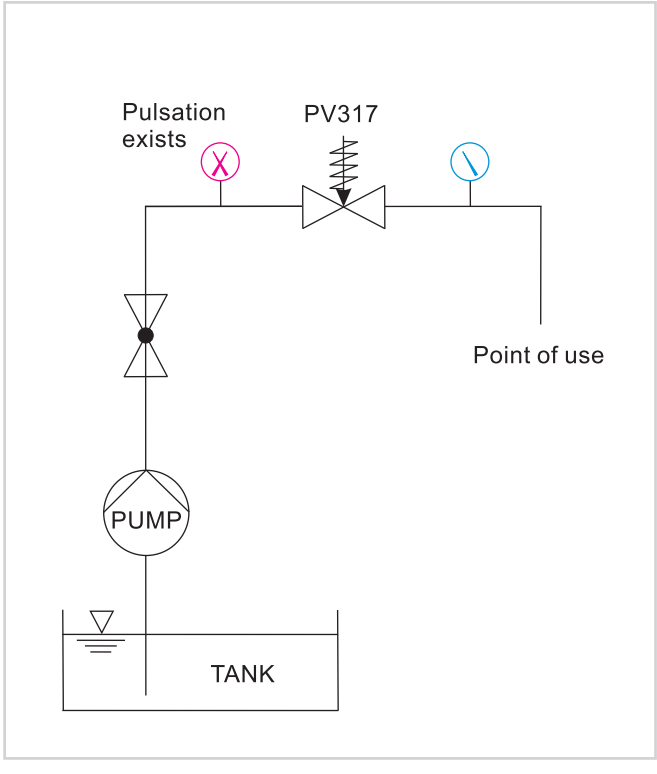
PV 317 Pressure reducing valve □ □ □ □ □ □ □ □ □ □

Product series	
	3 1 7
Valve body material	
PVDF	6
PFA	7
PTFE	8
Diaphragm material	
PTFE	7
Control mode	
Manual	0
Pneumatic pilot	3
Connection mode	
Flare LINK: PVDF NUT	0
Insert Bushing	2
Flare LINK: PFA NUT	4
Thread	9
Connection standard	
ANSI UNF	4
BSP/G	6
Interface size	
1/16"	02
1/8"	03
3/16"	04
1/4"	06
3/8"	10
1/2"	12
3/4"	19
1"	26
1-1/4"	31
1-1/2"	38
40A	50
50A	63

Installation examples

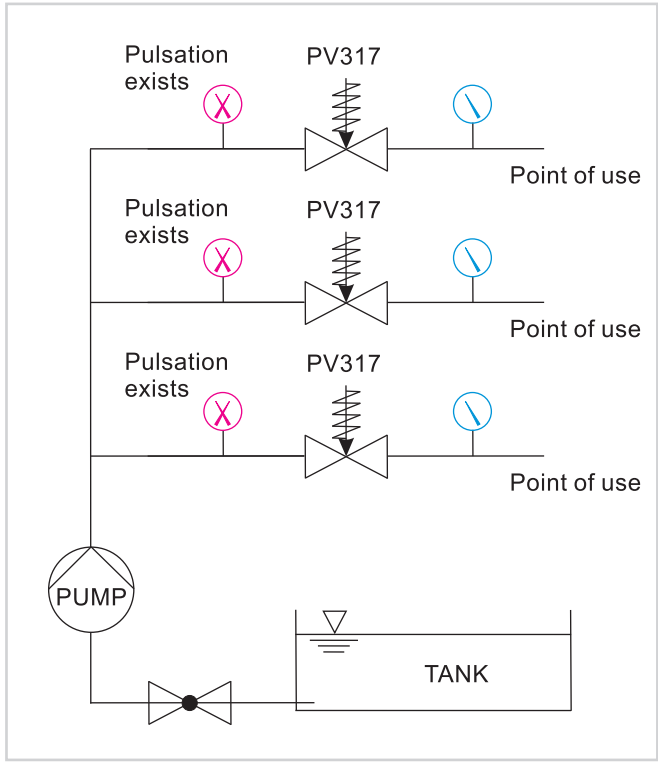
Pulsation prevented

The pressure reducing valve is installed on the main road to ensure the stable pressure at the outlet and the stable flow supply.



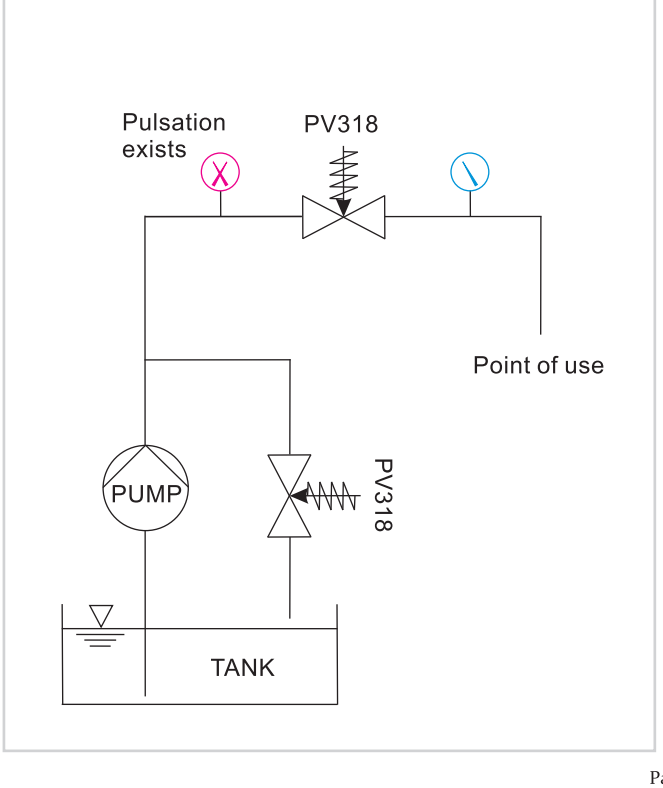
Constant flow rate supply

Flow rate variation prevented with hydraulic head pressure.

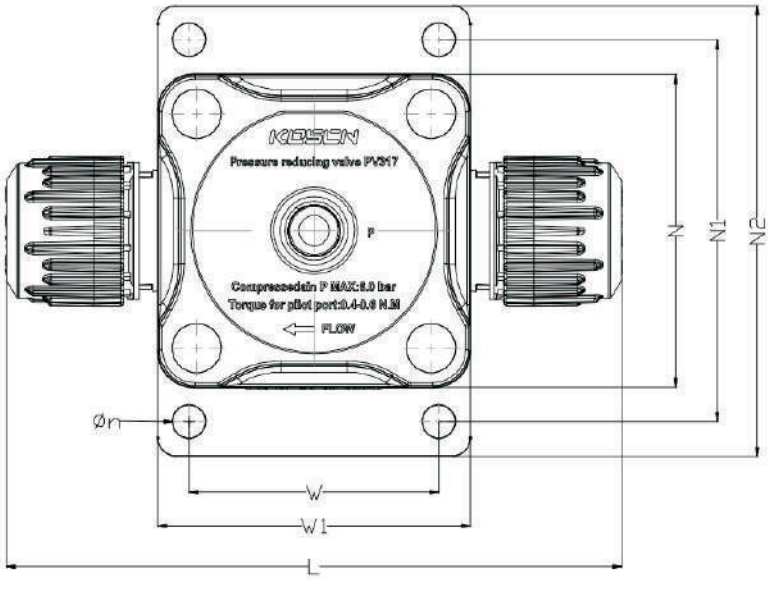


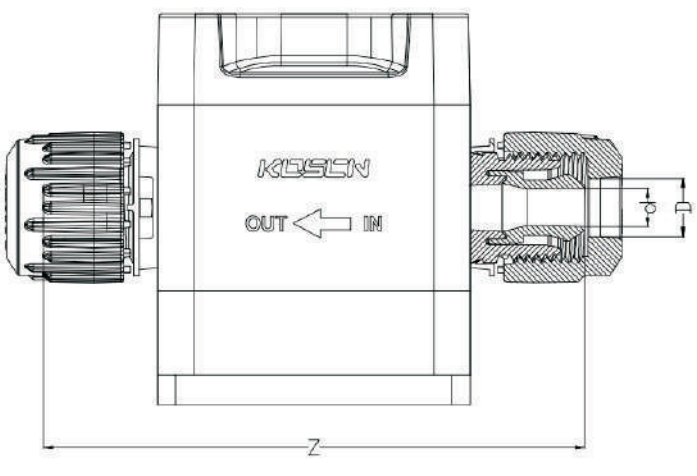
Steady back pressure

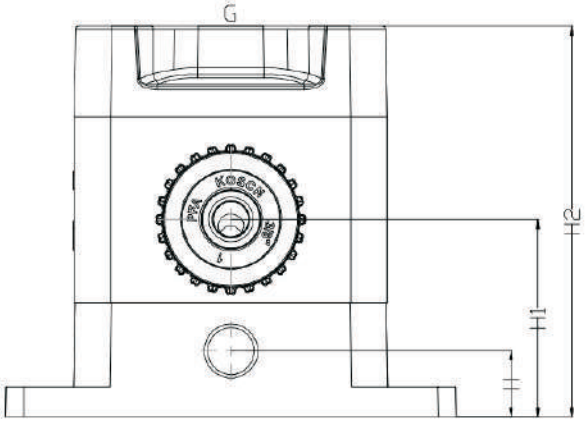
It is required to produce good back pressure occasions, balance pressure pulsation, reduce pressure peak, overflow and back pressure combined application is the best solution.



Size







Unit: mm

Inch	D	d	H	H1	H2	N	N1	N2	W	W1	L	Z	n	G
1/4	7,7	4,0												
3/8	10,5	6,4	11	33	65	52	64	75	42	52	102	90	5.5	1/8
1/2	13,9	9,5	11	33	65	52	64	75	42	52	109	96	5.5	1/8
3/4	20,5	15,9												
1	29,0	22,2												

Contact
customer center
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