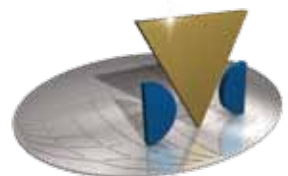


Valves with a difference



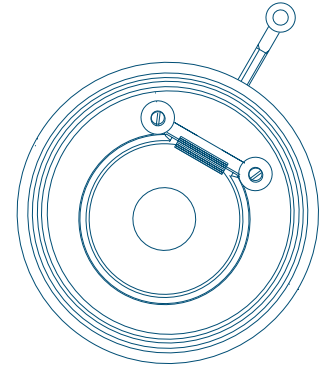
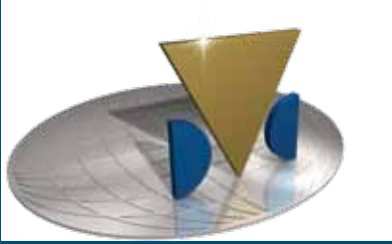
Thin Wafer Check Valves



DVC INTERNATIONAL

With DVC as your business partner, you are always guaranteed a wide and well sorted product range and a unique technical know-how

Product development is a key factor for DVC, ensuring you the best products at any time



CE Approved
Long Service
Self-centering
Easy Mounting
Large Program
Great Flexibility
Value for Money
Highly Dependable

What is important to you, when you buy Check Valves? What about: Long service? CE Approval? Easy to clean? Stainless steel? Value for money? Minimum drop of pressure?

DVC International Check Valves are characterized by their blow out proof stem and minimum drop of pressure. The Check Valves are available in a wide range of dimensions at competitive prices.

All these benefits you will get with DVC International Check Valves. It is your assurance for a prosperous business.



Benefits - Soft Seated

Thin Wafer Check Valves Soft Seated

Type 6140

Dimensions

DN40 - DN80, PN10/40
DN100 - DN200, PN10/16
DN250 - DN600, PN10



- **Great flexibility**
Type 6140 has a broad field of use, because of its low weight, its small mounting dimensions and the many options.
- **Highly dependable**
Type 6140 has a simple construction, which provides high reliability.
- **Easy mounting**
Type 6140 is self-centering and has an eyebolt on top of the valve, which makes the installation easy.
- **Maximum leak-tightness**
Type 6140 can be supplied soft seated for maximum leak-tightness.

Materials

- House and disc in nickel plated steel, stainless steel, alu-bronze or exotic materials on request.
- Spring in stainless steel.
- Sealing elements in NBR, EPDM, FPM, PTFE.

Benefits - Metal Seated

Thin Wafer Check Valves Metal Seated

Type 6140

Dimensions

DN40 - DN80, PN10/40
DN100 - DN200, PN10/16
DN250 - DN600, PN10



- **Great flexibility**
Type 6140 has a broad field of use, because of its low weight, its small installation dimensions and the many options.
- **Highly dependable**
Type 6140 has a simple construction, which provides high reliability.
- **Easy mounting**
Type 6140 is self-centering has an eyebolt on top of the valve, which makes the installation easy.
- **Suitable for aggressive media**
Type 6140 is metal seated and thus suitable for aggressive medias.

Materials

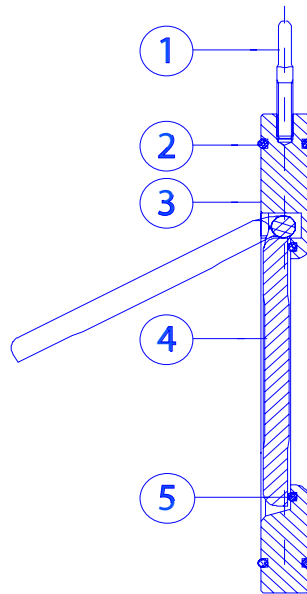
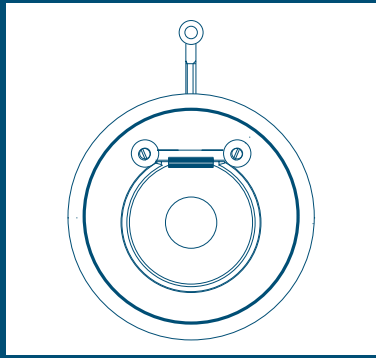
- House and disc in nickel plated steel, stainless steel, alu-bronze or exotic materials on request.
- Spring in stainless steel.

Structure and material - Soft Seated

Thin Wafer Check Valves Soft Seated

Type 6140

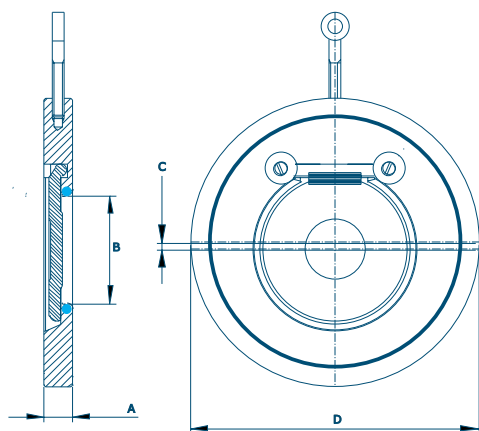
Dimensions
DN40 - DN80, PN10/40
DN100 - DN200, PN10/16
DN250 - DN600, PN10



No.	Description	Material
1	Eye bolt	Nickle plated steel / stainless steel
2	O-ring	EPDM / NBR / FPM
3	Body	Nickle plated steel / stainless steel / aluminium / others on request
4	Disc	Nickle plated steel / stainless steel / aluminium / others on request
5	Seat	EPDM / NBR / FPM / PTFE
6	Spring (if fitted)	Stainless steel

Dimension and weight - Soft Seated

Dimensions (mm) and weight



Dimension	A	B	C	D PN10	D PN16	D PN25 / DN40	Weight (kg)
DN40	14	22	0	95	95	95	0.8
DN50	14	32	2	110	110	110	1.0
DN65	14	40	2	130	130	130	1.3
DN80	14	54	2	145	145	145	1.7
DN100	18	70	3	165	165	-	2.2
DN125	18	92	4	195	195	-	3.2
DN150	20	112	4	220	220	-	5.0
DN200	22	154	6	275	275	-	11.0
DN250	26	200	7	330	330	-	15.0
DN300	32	240	11	380	-	-	25.0
DN350	38	269	12	440	-	-	37.0
DN400	44	308	14	490	-	-	55.0
DN450	50	360	-	540	-	-	65.0
DN500	56	405	-	595	-	-	105.0
DN600	62	486	-	698	-	-	130.0

Structure and material - Metal Seated

Thin Wafer Check Valves Metal Seated

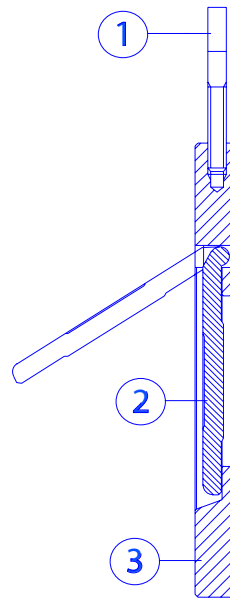
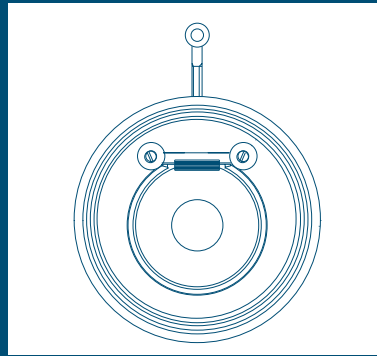
Type 6140

Dimensions

DN40 - DN80, PN10/40

DN100 - DN200, PN10/16

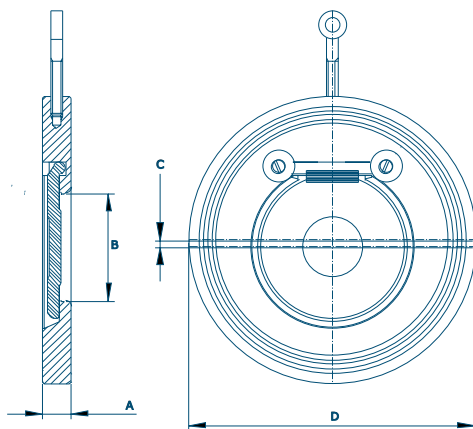
DN250 - DN600, PN10



No.	Description	Material
1	Eye bolt	Nickle plated steel / stainless steel
2	Disc	Nickle plated steel / stainless steel / alubronze / specials on request
3	Body	Nickle plated steel / stainless steel / alubronze / specials on request
4	Spring (if fitted)	Stainless steel

Dimension and weight - Metal Seated

Dimensions (mm) and weight



Dimension	A	B	C	D PN10	D PN16	D PN25 / PN40	Weight (kg)
DN40	14	22	0	95	95	95	0.8
DN50	14	32	2	110	110	110	1.0
DN65	14	40	2	130	130	130	1.3
DN80	14	54	2	145	145	145	1.7
DN100	18	70	3	165	165	170	2.2
DN125	18	92	4	195	195	198	3.2
DN150	20	112	4	220	220	228	5.0
DN200	22	154	6	275	275	285	11.0
DN250	26	200	7	330	330	343	15.0
DN300	32	240	11	380	-	-	25.0
DN350	38	269	12	440	-	-	37.0
DN400	44	308	14	490	-	-	55.0
DN450	50	360	-	540	-	-	65.0
DN500	56	405	-	595	-	-	105.0
DN600	62	486	-	698	-	-	130.0

Head losses

Head losses chart refers to water at 20 °C.

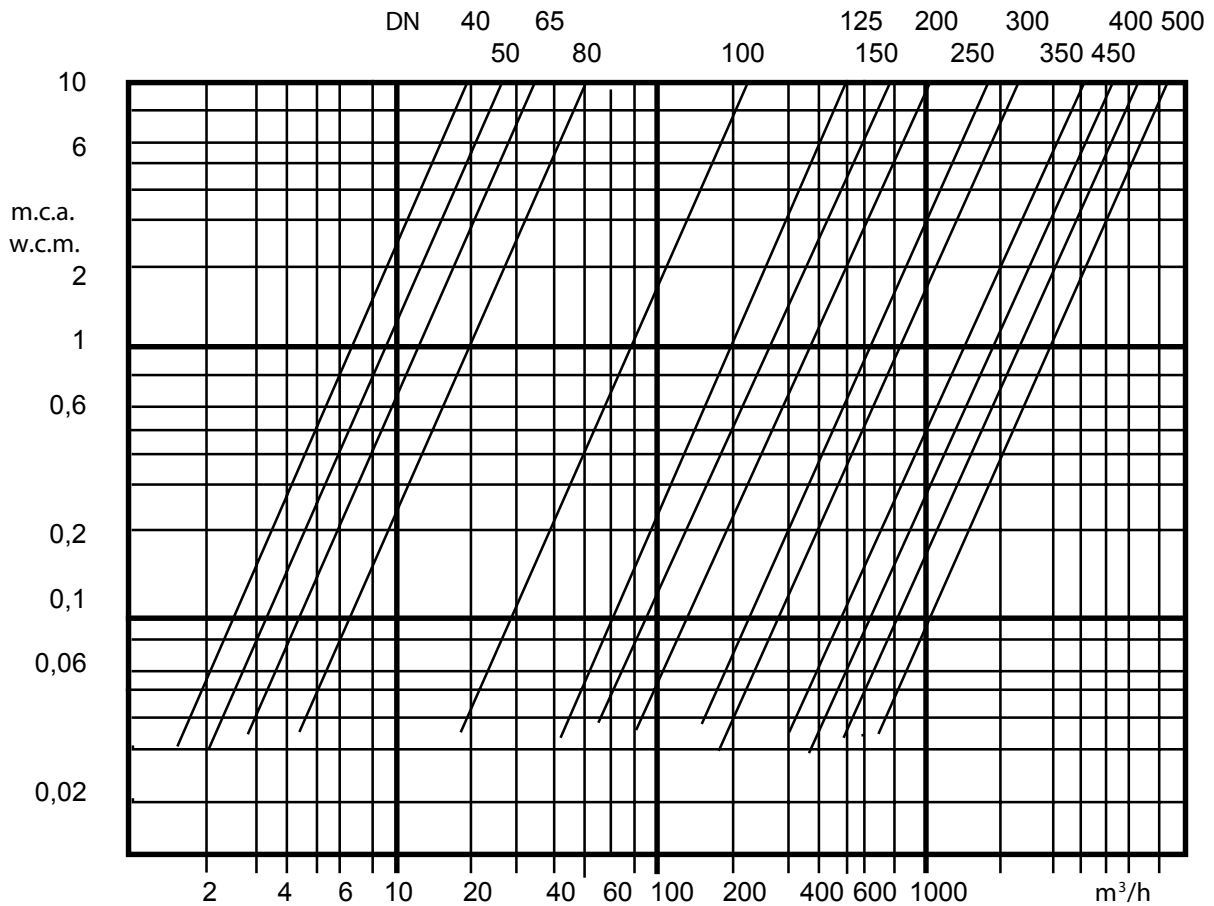
For different mediums the equivalent water flow can be found by the following relationship :

$$Q_e = Q \sqrt{\frac{d}{1000}}$$

ove: Q_e = equivalent water flow [m³/h]

Q = medium flow at working conditions [m³/h]

d = medium density [kg/m³]

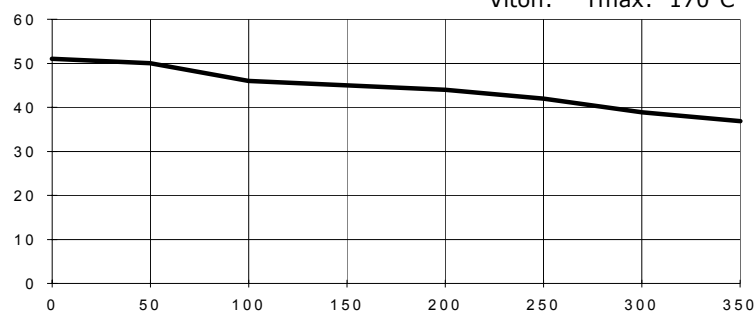


notes: - w.c.m. = water column meter

Pressure / temperature chart

P/T [bar/°C]

Nitrile: Tmax: 80°C
EPDM: Tmax: 120°C
Viton: Tmax: 170°C





■ CE

Installation guide

General remarks

- 1.1 The installation must take place under the supervision of an authorised person taking account of local safety instructions and advice.
- 1.2 The handling of valves must be done by staff trained in all technical aspects of their operation.
- 1.3 Before installation the pipes must be depressurised and purged (empty of fluid) in order to avoid any danger to the operator.
- 1.4 The pipe work must be correctly aligned so that no extra stress is exerted on the valve casing.
- 1.5 The valve is a fragile piece of equipment and must not be used to align or break the flanges of pipework.
- 1.6 In an ATEX zone, check that the pipework is earthed. Do not use isolating pipes (PVC etc.)
- 1.7 Check the compatibility of the connection flanges against the operating pressure: the PN number of the flanges must be greater or equal to the operating pressure.

Installation position

- 2.1 If the non-return valve has an inspection plate, this should be easily accessible.

Fitting to the pipework

- 3.1 Make sure that the surfaces of the flanges are clean and undamaged.
- 3.2 Make sure that the valve can be easily fitted between the flanges without damaging the surface of the flanges or joint.
- 3.3 Prise apart the flanges with a suitable tool (without damaging the flanges) if the fit is too tight.
- 3.4 Make sure that nothing interferes with the movement of the closing system while the valve is operating.
- 3.5 **On a new installation, never weld the flanges with the valve in place - risk of burning the internal components.**
- 3.6 The flange bolts must be tightened in accordance with current regulations.
- 3.7 In an ATEX zone, connect the earth strap to one of the pipes upstream or downstream. Check the continuity between the valve casing and the pipe connected to the braided wire using an ohmmeter (test according to the standard EN 12266-2 annexe B, point B. 2.2.2. and B.2.3.1). Check in addition that the pipe work is properly earthed and that the electrical connection between the two sets of pipe work (upstream/downstream) has been made.

Installation conditions

- 4.1 It is recommended that the valve be positioned some distance from any change of direction in the pipe work or from other apparatus in order not to place it in a turbulent zone which would increase its wear. (Between 3 and 5 times the diameter in a straight line both upstream and downstream of the valve).
- 4.2 At the lifting of a rotodynamic pump, it is recommended that a valve which conforms to the standard NF CR 13932 is installed.

Commissioning

- 5.1 Before putting valve into operation, check that the working conditions are compatible with the details given on the identification plate, this instruction notice and the other details (technical datasheet, price list catalogue, advisory service).
- 5.2 Check several times that the valve works efficiently during testing.
- 5.3 On a new installation or after maintenance, the circuit must be rinsed with the valve completely open in order to remove solid matter which may damage the internal parts of the valve.
- 5.4 The installation should be put under pressure progressively to avoid damaging internal parts.
- 5.5 Make sure that when flow stops the valve maintains pressure well and that there is no water-hammer which might damage the valve or installation. If there is water-hammer, an anti-water hammer system must be added to the installation.
- 5.6 During a prolonged stop, a change in the state of the fluid may result in damage when the installation is brought back into service (solidification....). Establish an adequate procedure programme for cleaning the system.

Valves with a difference

DVC INTERNATIONAL

Product Range

- Ball Valves
- Butterfly Valves Soft Seated
- Butterfly Valves Metal Seated
- Y-angle Globe Control Valves
- Thin Wafer Check Valves
- Pneumatic Actuators
- Electrical Actuators
- Brackets for Actuators
- Limit Switches
- Level Gauges - Reflex & Transparent

Try us - together we can make a difference

DVC is a company with a difference - our goal is not to be just another player - we want to be a leading company in the valve business.

Our distributors needs drive our business. It is our goal to build long-term partnerships with everyone of our distributors, contributing to their succes.

Accuracy, excellent service, flexibility, timely delivery and cost effectiveness all ensure that we meet end even exceed the expectations of our distributors.

Visit us at www.dvc.nu and learn more about DVC and our products.

