



Flow Control  
Valve

# FLOW CONTROL VALVE - NDV

Valve designed to control and shut off flow in both directions. Features a graduated handle and locking screw for handle fixation.



## Seals & Operating Temperatures

NBR (Buna-N): -25°C to 100°C (-13°F to 212°F) - (Standard)

FKM (Viton): -15°C to 200°C (5°F to 392°F) - V

## Surface Treatment

White Zinc Plating (Hexavalent Chromium-Free)

## Materials

Carbon Steel

Stainless Steel AISI 316

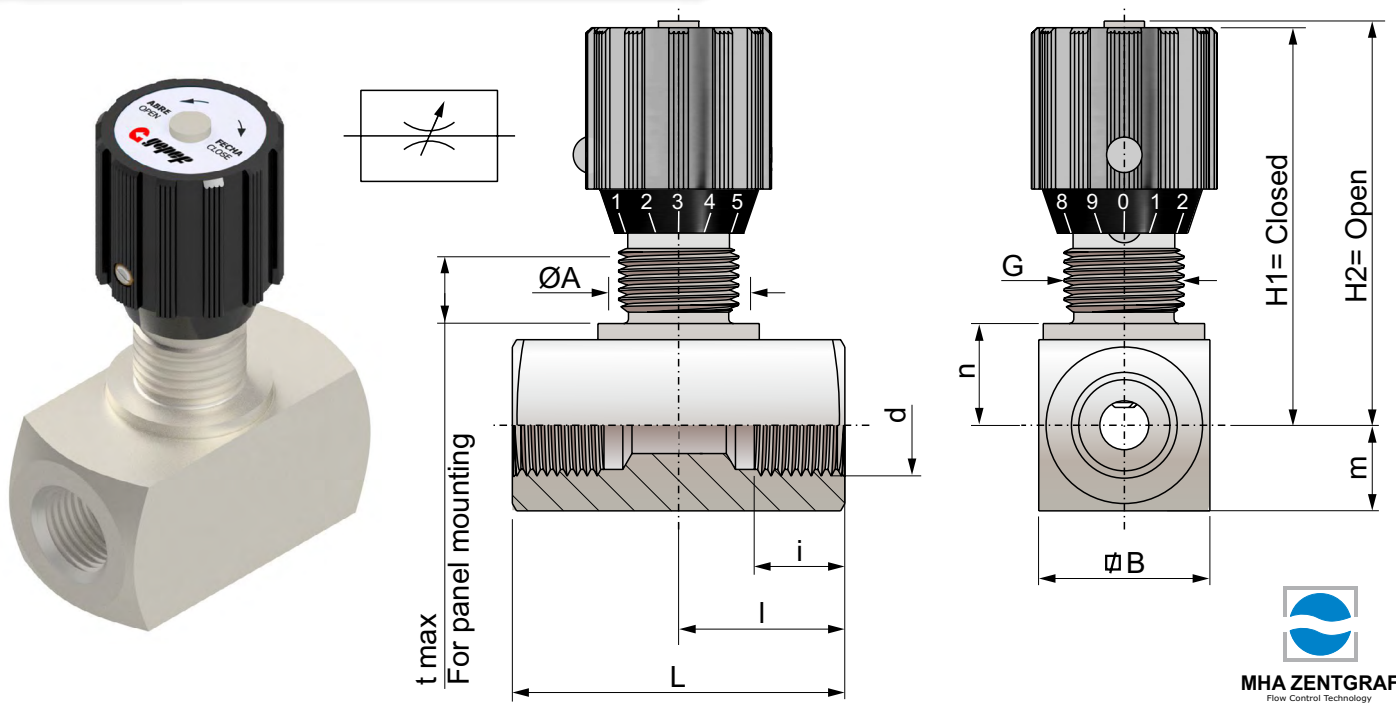
## Nominal Pressure

AISI 306 bar



Flow control valves must be used together with a shut-off device.

Minor leakage may occur in the closed position. (DIN EN 12266-1 leakage test rate A-B - water test medium.)



Flow charts available on pages 6 and 7

**BSP / NBR 8131 THREAD**

Type	DN	d	i	H1	H2	m	n	B	l	L	D	A	G	t max	Weight / kg
NDV	6	G1/8	9	51	56	8	10	16	19	38	24	13	Pg7	4	0,12
NDV	8	G1/4	12	65	71	13	15	25	24	48	29	19	Pg11	7	0,25
NDV	10	G3/8	13,5	68	75	15	17	30	29	58	29	19	Pg11	7	0,4
NDV	12	G1/2	14,5	82	92	18	21	35	34	68	38	23	Pg16	7	0,6
NDV	16	G3/4	17,5	96	106	23	26	45	39	78	38	23	Pg16	7	1,1
NDV	20	G1	19,5	121	134	25	30	50	54	108	49	38	Pg29	10	2,4
NDV	25	G1 1/4	21,5	126	139	30	35	60	54	108	49	38	Pg29	10	2,8
NDV	30	G1 1/2	23,5	131	144	35	40	70	54	108	49	38	Pg29	10	3,5
NDV	40	G2	25,5	141	154	45	50	90	60	120	49	38	Pg29	10	6,24

**NPT / ANSI B1.20.1 / NBR 12912 THREAD**

Type	DN	d	i	H1	H2	m	n	B	l	L	D	A	G	t max	Weight / kg
NDV	6	1/8NPT	9	51	56	8	10	16	19	38	24	13	Pg7	4	0,12
NDV	8	1/4NPT	12	65	71	13	15	25	24	48	29	19	Pg11	7	0,25
NDV	10	3/8NPT	12	68	75	15	17	30	29	58	29	19	Pg11	7	0,4
NDV	12	1/2NPT	14	82	92	18	21	35	34	68	38	23	Pg16	7	0,6
NDV	16	3/4NPT	14	96	106	23	26	45	39	78	38	23	Pg16	7	1,1
NDV	20	1NPT	19,5	121	134	25	30	50	54	108	49	38	Pg29	10	2,4
NDV	25	1 1/4NPT	21	126	139	30	35	60	54	108	49	38	Pg29	10	2,8
NDV	30	1 1/2NPT	24	131	144	35	40	70	54	108	49	38	Pg29	10	3,5
NDV	40	2NPT	19,9	141	154	45	50	90	60	120	49	38	Pg29	10	6,3

**Coding Example:**

**NDV-DN6-G1/8** (Flow control valve, 010 flow rate, BSP G1/4 thread, V).

Material: In AISI 316, add the letter I at the end of the code.

For Viton seals, add the letter V at the end of the code.

In case of incompatibility between this catalog and the website, please contact our sales department.

# FLOW CONTROL VALVE WITH CHECK VALVE - NDRV

Valve designed to control and shut off flow in only one direction; in the opposite direction, free flow is allowed. Features a graduated handle and locking screw for handle fixation.



## Seals & Operating Temperatures

NBR (Buna-N): -25°C to 100°C (-13°F to 212°F) - (Standard)

FKM (Viton): -15°C to 200°C (5°F to 392°F) - V

## Surface Treatment

White Zinc Plating (Hexavalent Chromium-Free)

## Materials

Carbon Steel

Stainless Steel AISI 316

## Nominal Pressure

AISI 350 bar

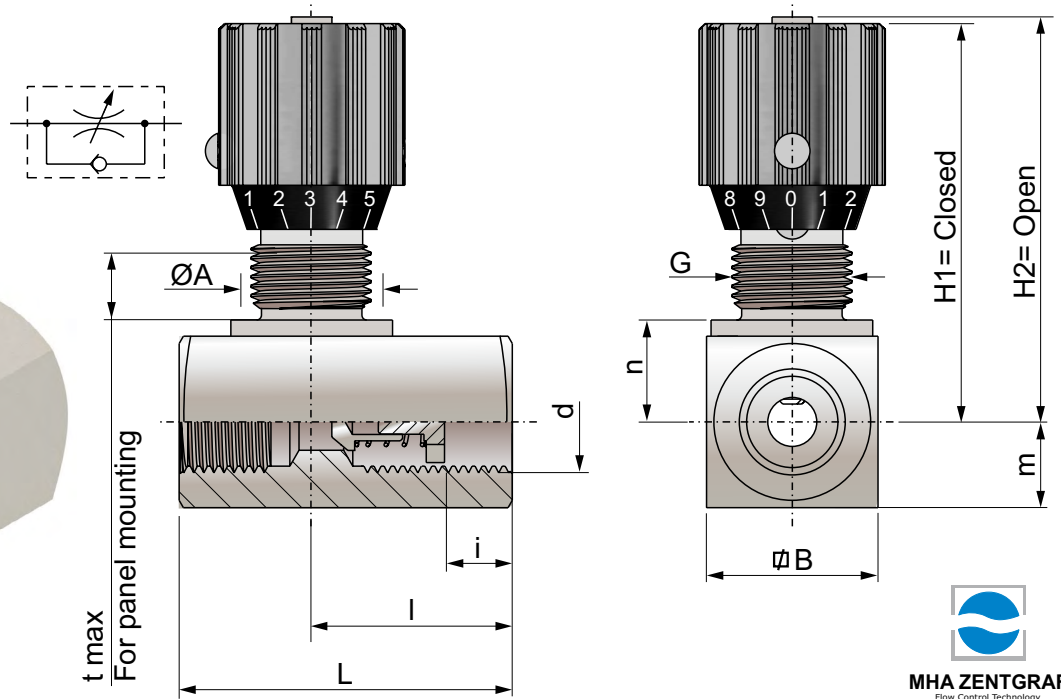
## Check Valve Opening Pressure

0,5 bar



Flow control valves must not be used as shut-off devices.

Minor leakage may occur in the closed position. (DIN EN 12266-1 leakage rate A-B - water as test medium.)



Flow charts available on pages 6 and 7

**BSP G THREAD / NBR 8133**

Type	DN	d	i	H1	H2	m	n	B	l	L	D	A	G	t max	Weight / kg
NDRV	6	G1/8	9,5	51	56	8	10	16	26	45	24	13	Pg7	4	0,1
NDRV	8	G1/4	13,5	65	71	13	15	25	34	55	29	19	Pg11	7	0,3
NDRV	10	G3/8	13,5	68	75	15	17	30	41	65	29	19	Pg11	7	0,45
NDRV	12	G1/2	15,5	82	92	18	21	35	44	73	38	23	Pg16	7	0,7
NDRV	16	G3/4	17,5	96	106	23	26	45	57	88	38	23	Pg16	7	1,26
NDRV	20	G1	19,5	121	134	25	30	50	77	127	49	38	Pg29	10	2,6
NDRV	25	G1 1/4	21,5	126	139	30	35	60	93	143	49	38	Pg29	10	3,7
NDRV	30	G1 1/2	23,5	131	144	35	40	70	91	143	49	38	Pg29	10	4,76
NDRV	40	G2	25,5	141	154	45	50	90	111	165	49	38	Pg29	10	8,52

**NPT THREAD / ANSI B1.20.1 / NBR 12912**

Type	DN	d	i	H1	H2	m	n	B	l	L	D	A	G	t max	Weight / kg
NDRV	6	1/8NPT	9,5	51	56	8	10	16	26	45	24	13	Pg7	4	0,1
NDRV	8	1/4NPT	13,5	65	71	13	15	25	34	55	29	19	Pg11	7	0,3
NDRV	10	3/8NPT	13,5	68	75	15	17	30	41	65	29	19	Pg11	7	0,45
NDRV	12	1/2NPT	15,5	82	92	18	21	35	44	73	38	23	Pg16	7	0,7
NDRV	16	3/4NPT	17,5	96	106	23	26	45	57	88	38	23	Pg16	7	1,26
NDRV	20	1NPT	19,5	121	134	25	30	50	77	127	49	38	Pg29	10	2,6
NDRV	25	1 1/4NPT	21,5	126	139	30	35	60	93	143	49	38	Pg29	10	3,7
NDRV	30	1 1/2NPT	23,5	131	144	35	40	70	91	143	49	38	Pg29	10	4,76
NDRV	40	2NPT	25,5	141	154	45	50	90	111	165	49	38	Pg29	10	8,52

**Coding Example:**

**NDRV-DN6-G1/8** (Flow control valve with check valve DN 6 G1/8 BSP).

Material: For AISI 316 stainless steel, add the letter I at the end of the code.

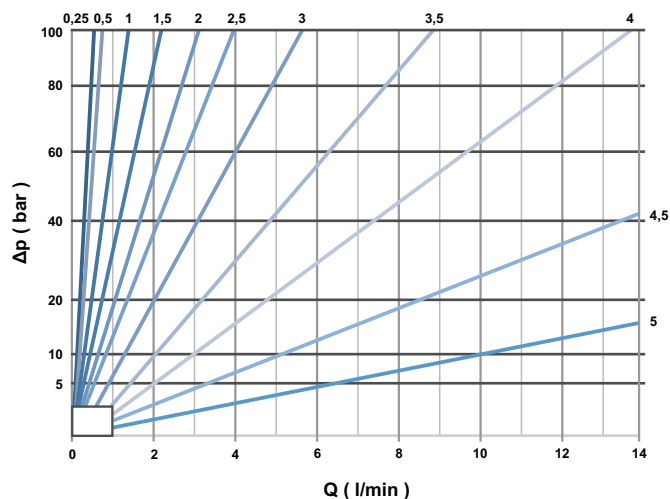
For Viton seals, add the letter V at the end of the code.

In case of incompatibility between this catalog and the website, please contact our technical department.

The displayed flow values are based on hydraulic oil with a density of 880 kg/m<sup>3</sup> and kinematic viscosity  $\nu$  of 35 mm<sup>2</sup>/s.

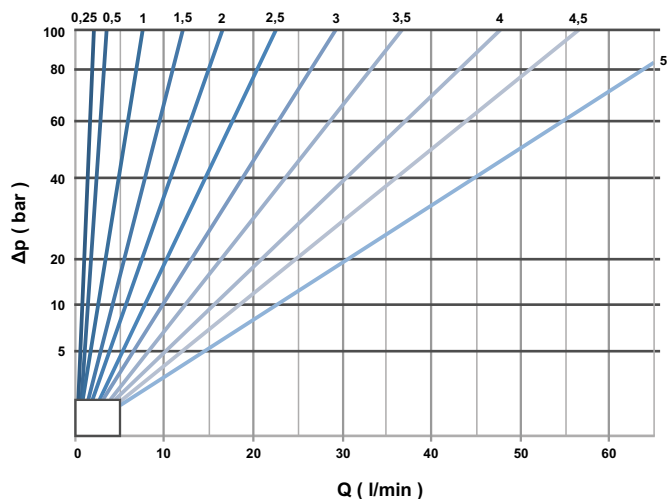
NDV / NDRV - DN6

Valve opening and flow rate



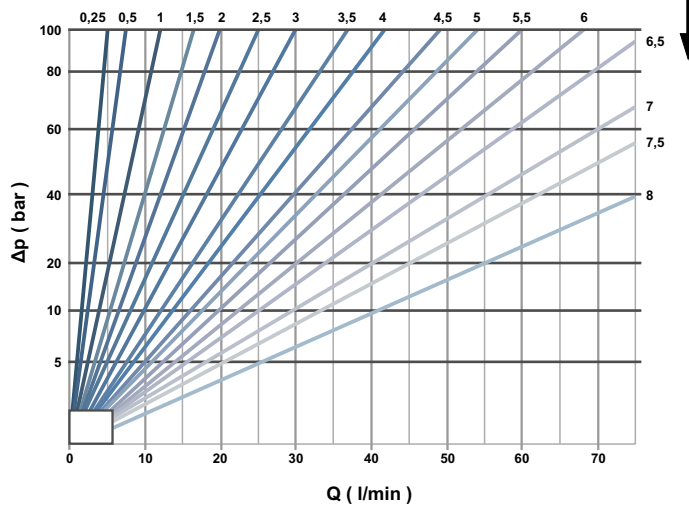
NDV / NDRV - DN8

Valve opening and flow rate



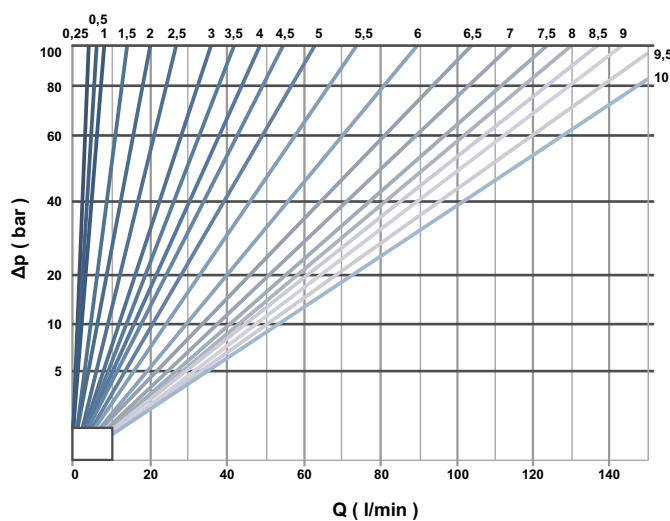
NDV / NDRV - DN10

Valve opening and flow rate



NDV / NDRV - DN12

Valve opening and flow rate



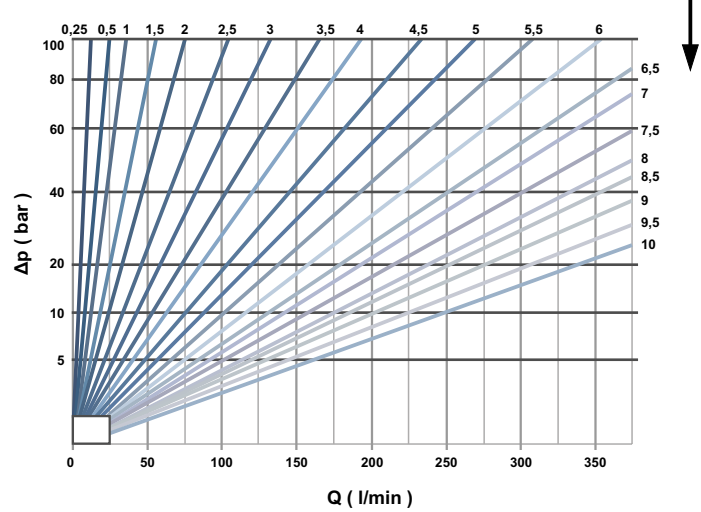
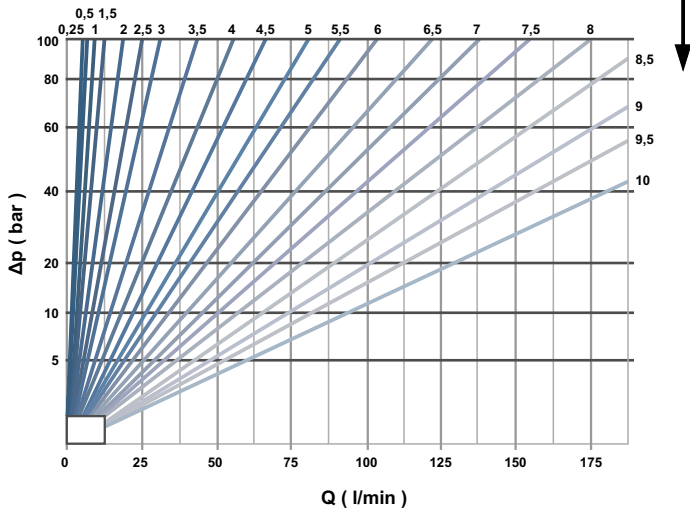
The displayed flow values are based on hydraulic oil with a density of 880 kg/m<sup>3</sup> and kinematic viscosity  $\nu$  of 35 mm<sup>2</sup>/s.

NDV / NDRV - DN16

NDV / NDRV - DN20/25/30/40

Valve opening and flow rate

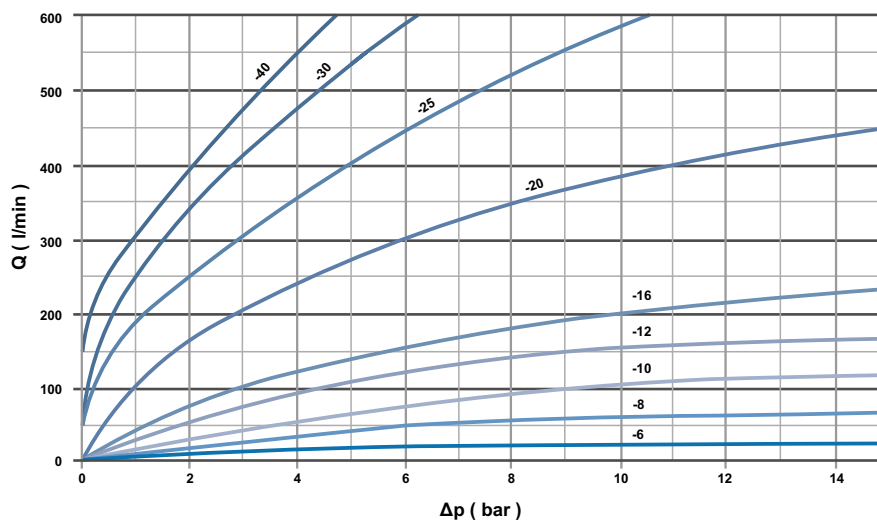
Valve opening and flow rate



NDRV - DN6 - DN40


Flow direction: B-A

$\Delta p$  across the check valve






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