Flange valve 7030

DN 15 to DN 150 - PN 16

Pneumatically operated valves for use in chemistry, process engineering and industrial automation.

- Insensitive to slightly soiled media
- Temperature versions from -100°C to +220°C
- Operating pressures up to 16 bar
- Rotatable drives in various sizes
- Also available with a balanced cone

Technical specifications

housing material	EN - GJS - 400 - 18 - LT (GGG 40.3)
nominal widths	DN15 to DN150
Connection	Flange according to DIN EN 1092-1
nominal pressure	PM 16
Media temperature*: with metal hood with plastic hood	 - 10°C to +170°C, opt. + 200°C - 10°C to + 135°C
ambient temperature*	- 30°C to +60°C
viscosity of the medium	maximum 600 mm²/s (600 cSt)
vacuum	maximum 0.001 bar abs
operating pressures	See tables and charts, Limitation of dangerous gases according to Pressure Equipment Directive 2014/68/EU (category I): PS x DN < 1000
Operating pressure with dead space-free design	maximum 12 bar
Leakage according to EN 12266-1	Leakage class A
leakage pack	Tested according to TA-Luft DIN EN ISO 15848-1 and VDI 2440

* : Please note further temperature versions and temperature limits in information sheet 32

options

e.g. e.g.:

- limit switch
  - Inductive proximity switches
  - electrical contact switches
  - pneumatic switches
- Additional manual actuation of pilot valves
- AS-I control head
- Oil and grease-free design
- PTFE-free design
- Seat seal in PTFE (working pressures on request)

spring closes

removable position indicator

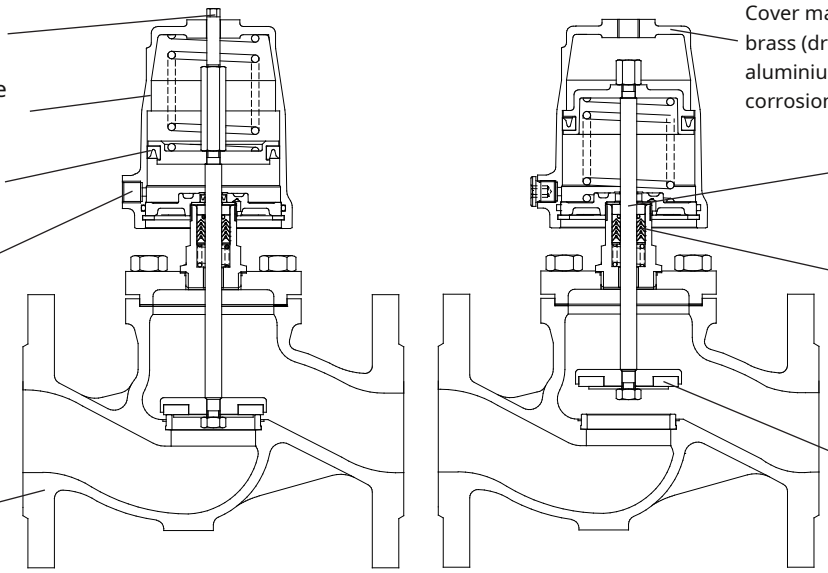
Hood freely rotatable (pressure connection)

outer lip seal

direct pressure due (on request with pilot valve), drive with air, water, mineral oil and their media

flange housing according to DIN ductile iron

spring opens



Cover made of chrome-plated brass (drives Ø 50 mm/Ø 80 mm) aluminium, protected against corrosion (drive Ø 125 mm)

piston rod stainless steel 1.4571, roll polished

Pack of stuffed PTFE; special tion for dead space-free installation (pack below)

seat seal FKM, EPDM, NBR, Optimal PTFE

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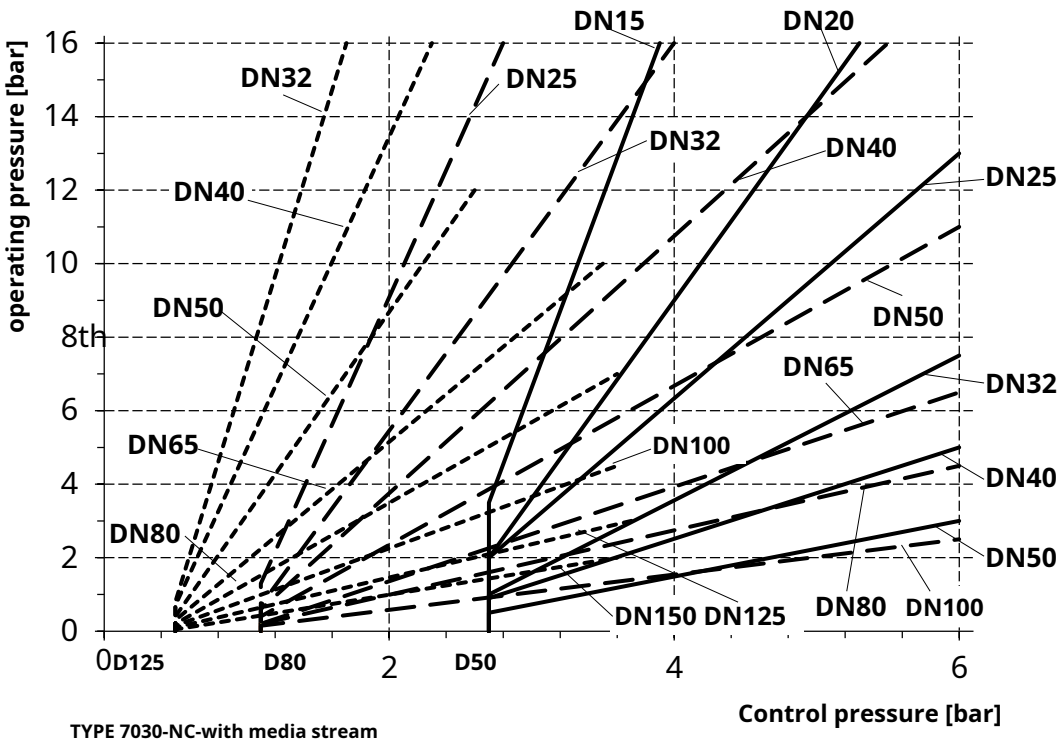
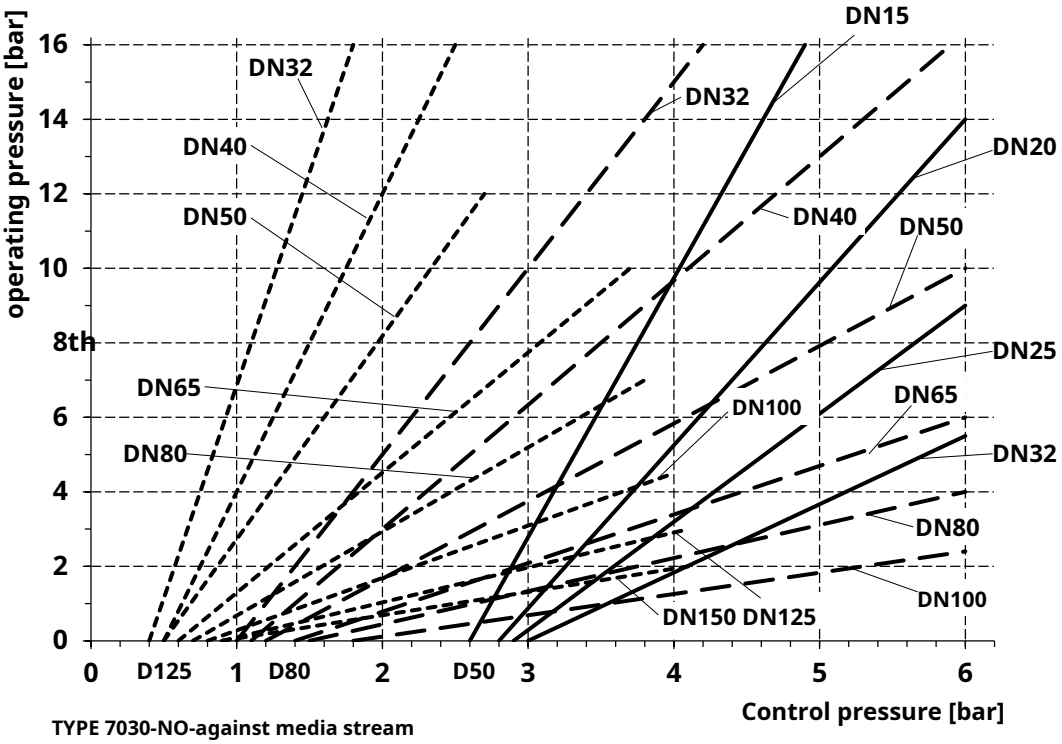


TYPE 7030-NC-with media stream

Use preferably with gaseous media, closing impacts are possible with liquids



TYPE 7030-NO-against media stream

Use with gaseous and liquid media

Maximum pilot pressures for NO versus media flow:

Piston Ø 50: 1 bar above required control pressure for operating pressure
Piston Ø 80: 0.8 bar above required control pressure for operating pressure 0.5
Piston Ø 125: bar above required control pressure for operating pressure

Piston Ø 50mm
Piston Ø 80mm
Piston Ø 125 mm

Spring closes (closing against the media flow)

The pressure values and diagrams are valid when using a soft seal (EPDM, NBR, FKM). Values for PTFE seals on request.

nominal size	maximum operating pressure (differential pressure) bar	control pressure bar	drive piston mm	feathers
DN15	10.0	3.5 - 10	50	1
DN15	16.0	4.5 - 10	50	2
DN20	6.0	3.5 - 10	50	1
DN20	10.0	4.5 - 10	50	2
DN20	14.0	5.7 - 10	50	3
DN20	16.0	3.5 - 10	80	1
DN25	5.0	4.5 - 10	50	2
DN25	7.0	5.7 - 10	50	3
DN25	16.0	3.5 - 10	80	1
DN32	3.5	4.5 - 10	50	2
DN32	5.5	5.7 - 10	50	3
DN32	11.0	3.5 - 10	80	1
DN32	15.0	4.4 - 10	80	2
DN32	16.0	5.6 - 10	80	3
DN32	9.5	1.3 - 10	125	1
DN32	16.0	2.2 - 10	125	2
DN40	6.5	3.5 - 10	80	1
DN40	9.0	4.4 - 10	80	2

nominal size	maximum operating pressure (differential pressure) bar	control pressure bar	drive piston mm	feathers
DN40	11.0	5.6 - 10	80	3
DN40	5.5	1.3 - 10	125	1
DN40	12.0	2.2 - 10	125	2
DN40	16.0	3:1-10	125	3
DN50	4.5	3.5 - 10	80	1
DN50	6.0	4.4 - 10	80	2
DN50	7.5	5.6 - 10	80	3
DN50	3.5	1.3 - 10	125	1
DN50	8.0	2.2 - 10	125	2
DN50	11.0	3:1-10	125	3
DN65	4.0	5.6 - 10	80	3
DN65	4.5	2.2 - 10	125	2
DN65	6.5	3:1-10	125	3
DN80	3.0	2.2 - 10	125	2
DN80	4.0	3:1-10	125	3
DN100	2.3	3:1-10	125	3
DN125	1.4	3:1-10	125	3
DN150	0.9	3:1-10	125	3

Standard equipment

Order number system

1	2	3	4	5	6	7	8	9													10	11	12
7	0	3	0	/				V															S

1 - 6 : Please enter all 6 digits.
7 - 12: Specify only if necessary.

Type

nominal size

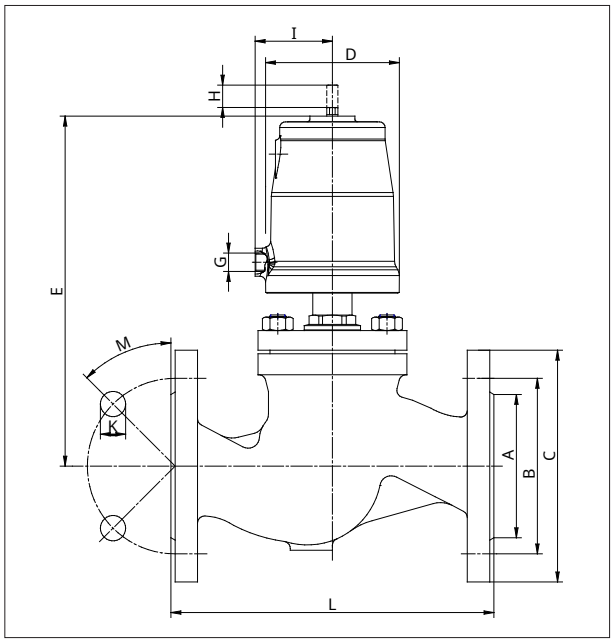
Symbol: "V": valve
"A": actuator (valve without housing) "R": repair kit (seals)

1.	design	2.	Connection	3.	housing material	4.	seat seal	5.	control function	6.	drive
2	Flange-Valve	1	flange according to DIN EN 1092-1	4	ductile iron EN-GJS-400-18-LT (GGG 40.3), PN16	0 1 2 3	PTFE FKM (Viton) EPDM NBR	0 1 2 3 5	Spring closes (with media flow closing) Spring opens (against Media flow closing) Spring closes (against Media flow closing) double-acting depressurized (spring closes)	0 1 2	Piston Ø50mm Piston Ø80mm Piston Ø125mm

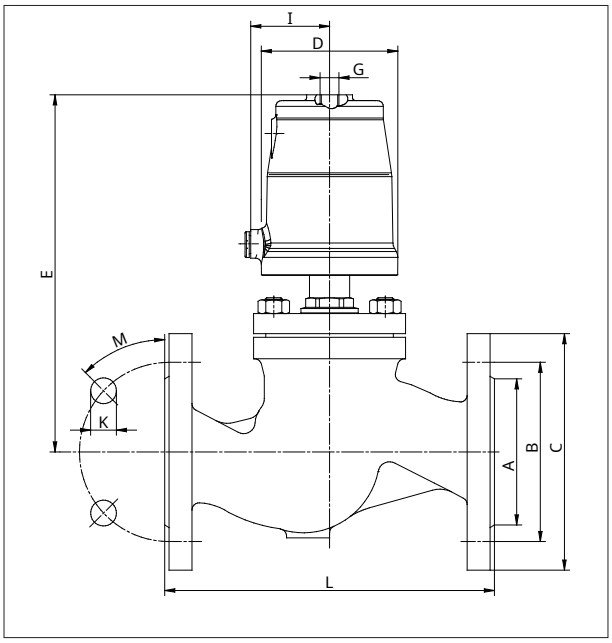
7.	feathers	8th.		9.	packing installation	10	Temperature-execution	11.	Accesories	12.	special remarks
-	Default-assembly	-	here without Meaning	-	default	-	default	-	without accessories	S	special designs
				0	PTFE-free execution	H	high temperature execution	1	1 limit signal transmitter (micro switch)	M	el. position indicator with cable guide
1	1 feather							2	2 limit signal transmitters (micro switch)		
2	2 springs			2	free of dead space (pack below)			3	manual override		
3	three feathers							4	manual override	N	el. position indicator with plug
								5	stroke limitation		
								6	pilot valve cpl. DN2, 230VAC		
								7	pilot valve cpl. DN2, 24VDC		
								K	1 limit signal transmitter, compact		
								M	2 limit signal transmitters, inductive, 10-36 V DC, (PNP)		
								P	1 limit signal transmitter inductive, 10-36 V DC, (PNP)		
								T	1 limit signal transmitter compact inductive 10-30 V DC, (PNP)		

Order example: 7030/080V214222- - - - 7
Flanged valve, DN 80, DIN flange, housing made of GGG 40.3, EPDM seat seal, spring closes against the media flow, drive 125 mm, pilot valve 24 V DC.

mass and weight



spring closes



Spring opens and double acting

DN	drive	A	B	C	D	E	G	H (stroke)	I	K	L*	M	N (Hole-number)	kvs Values	Weight (approx. kg)
15	50	45	65	95	62	165	G1/8"	8th	34.5	14	130	45°	4	3.6	3.6
20	50	58	75	105	62	176	G1/8"	10	34.5	14	150	45°	4	6.0	4.4
25	50	68	85	115	62	182	G1/8"	11	34.5	14	160	45°	4	9.6	5.0
25	80	68	85	115	98	221	G1/4"	12	55	14	160	45°	4	9.6	6.6
32	50	78	100	140	62	197	G1/8"	15	34.5	18	180	45°	4	15.0	7.3
32	80	78	100	140	98	236	G1/4"	15	55	18	180	45°	4	15.0	7.8
32	125	78	100	140	146	260	G1/4"	16	80	18	180	45°	4	15.0	10.0
40	50	88	110	150	62	202	G1/8"	16	34.5	18	200	45°	4	23.0	8.2
40	80	88	110	150	98	241	G1/4"	16	55	18	200	45°	4	23.0	9.7
40	125	88	110	150	146	265	G1/4"	16	80	18	200	45°	4	23.0	11.9
50	50	102	125	165	62	211	G1/8"	16	34.5	18	230	45°	4	36.0	10.6
50	80	102	125	165	98	250	G1/4"	16	55	18	230	45°	4	36.0	12.1
50	125	102	125	165	146	274	G1/4"	16	80	18	230	45°	4	36.0	14.2
65	80	122	145	185	98	313	G1/4"	19	55	18	290	45°	4	58.0	20.0
65	125	122	145	185	146	336	G1/4"	19	80	18	290	45°	4	58.0	22.2
80	80	138	160	200	98	317	G1/4"	22	55	18	310	22.5°	8th	92.0	22.5
80	125	138	160	200	146	340	G1/4"	22	80	18	310	22.5°	8th	92.0	24.7
100	80	158	180	220	98	327	G1/4"	27	55	18	350	22.5°	8th	150.0	37.0
100	125	158	180	220	146	350	G1/4"	27	80	18	350	22.5°	8th	150.0	39.0
125	125	188	210	250	146	387	G1/4"	28	80	18	400	22.5°	8th	227.0	48.2
150	125	212	240	285	146	389	G1/4"	28	80	22	480	22.5°	8th	327.0	64.2

* Overall lengths according to DIN EN 558-1, row 1

size in mm

Flange valve 7030

with pressure balanced cone

The pressure-balanced valve design enables high operating pressures to be safely mastered, even with the larger nominal diameters. In many cases a smaller actuator with low air consumption can be used.

Technical specifications

housing material	EN - GJS - 400 - 18 - LT (GGG 40.3)
nominal widths	DN 40 to DN 150
Connection	Flange according to DIN EN 1092-1
nominal pressure	PM 16
media temperature	- 10°C to +170°C, optionally up to + 200°C
ambient temperature	- 30°C to +60°C
viscosity of the medium	maximum 600 mm²/s (600 cSt)

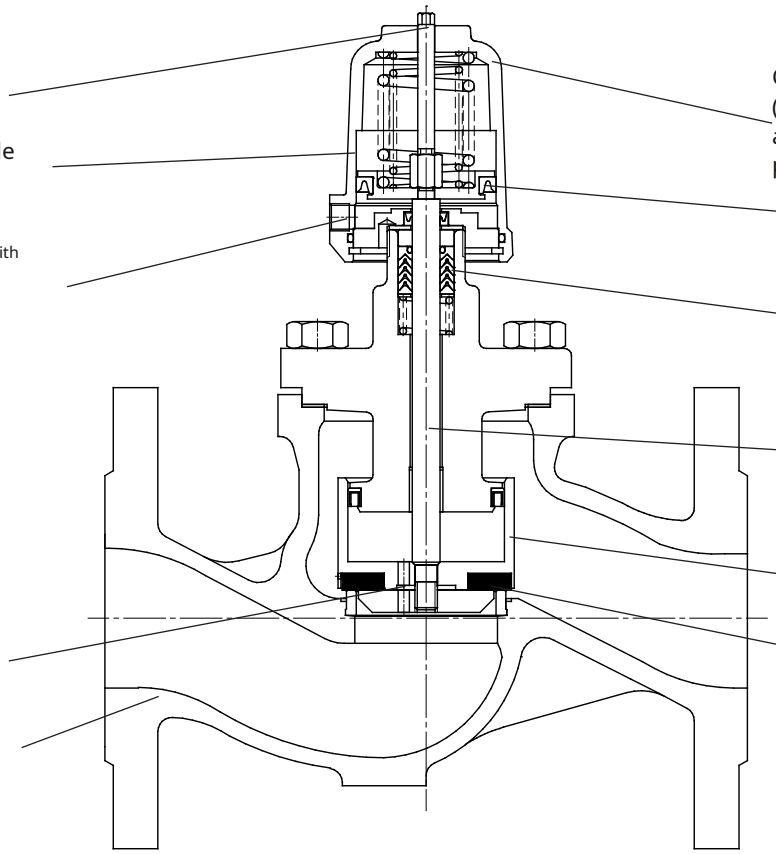
operating pressures

DN	maximum operating pressure (differential pressure) bar	control pressure (bar) PTFE seat poetry	other seat poetry	Pistons mm
40	16	4.5 - 10 (2)	3.5 - 10 (1)	50
50	16	-	4.5 - 10 (2)	50
50	16	3.5 - 10 (1)	3.5 - 10 (1)	80
65	16	3.5 - 10 (1)	3.5 - 10 (1)	80
80	16	5.6 - 10 (3)	3.5 - 10 (1)	80
80	16	3.1 - 10 (3)	1.3 - 10 (1)	125
100	16	-	3.5 - 10 (1)	80
100	16	3.1 - 10 (3)	1.3 - 10 (1)	125
125	16	3.1 - 10 (3)	2.2 - 10 (2)	125
150	16	3.1 - 10 (3)	2.2 - 10 (3)	125

Flange valve relieved of pressure, closing against the media flow, spring closes
( ) Number of springs

options

- Limit switch
  - Inductive proximity switches
  - electrical contact switches
  - pneumatic switch
- Pilot valve
- Manual override
- PTFE-free design
- Oil and grease-free design



Flange valve 7030

with pressure balanced cone

mass and weight

DN	effective samer drive Ø	A	B	C	D	E	G	H (hub)	I	K	L*	M	N (Hole-number)	kvs Values	Weight (approx. kg)
40	50	88	110	150	62	212	G1/8"	13	34.5	18	200	45°	4	23	8.2
50	50	102	125	165	62	213	G1/8"	15	34.5	18	230	45°	4	36	10.5
50	80	102	125	165	98	252	G1/4"	16	55	18	230	45°	4	36	12.0
65	80	122	145	185	98	313	G1/4"	22	55	18	290	45°	4	58	20.0
80	80	138	160	200	98	317	G1/4"	25	55	18	310	22.5°	8th	92	22.5
80	125	138	160	200	146	340	G1/4"	25	80	18	310	22.5°	8th	92	25.0
100	80	158	180	220	98	327	G1/4"	29	55	18	350	22.5°	8th	150	32.0
100	125	158	180	220	146	350	G1/4"	29	80	18	350	22.5°	8th	150	34.0
125	125	188	210	250	146	387	G1/4"	29	80	18	400	22.5°	8th	227	51.0
150	125	212	240	285	146	389	G1/4"	29	80	22	480	22.5°	8th	327	64.0

* Dimensions according to DIN 3502, series F1

size in mm