## Angle valve 7050



### DN 15 to DN 50

Pneumatically operated angle valves for controlling neutral,
light and highly aggressive fluids.

- Compact design
- Insensitive to slightly soiled media
- Temperature versions from -100°C to +220°C
- Operating pressures up to 40 bar
- Rotatable drives
- high Kvs values

### Technical specifications

· • • • • • • • • • • • • • • • • • • •		
nominal widths	DN 15 to DN 50	
housing material	1.4408	
Connection:		7
Pipe thread according to ISO 228-1	1/2" - 2"	7
NPT thread	1/2" - 2"	7
nominal pressure	PN 40	
Media temperature*:		
with metal hood	- 30°C to +170°C, opt100°C to 220°C	
with plastic hood	- 30°C to +135°C	
with diaphragm drive	- 30°C to +200°C, opt30°C to 220°C	٦٢
ambient temperature*	- 30°C to +60°C	
viscosity of the medium	maximum 600 mm²/s (600cSt, 80°E)	7-
vacuum	maximum 0.001 bar abs	
operating pressures	See tables and diagrams, limit for dangerous gases according to Pressure Equipment Directive 2014/68/EU (category I): PS x DN < 1000	-
operating pressure at 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	



### ns

witch

- inductive proximity switches
- electrical contact switches
- pneumatic switches
- alves
- al override
- d grease-free design

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

removableposition indicator	Hood made of chrome-plated brass (drives Ø 50 mm, Ø 80 mm) aluminium, protected against corrosion (drive Ø
Hood freely rotatable	125 mm),
(pressure connection!)	(drive Ø 50 mm, Ø 80 mm,)
Direct pressure actuation (with pilot valve on request), drive with air, water, mineral oil and	— outer lip seal
other media	— Packing made of filled PTFE, special
headpiece ——————————	design for installation without dead space (packing below)
piston rod stainless steel 1.4571,	Housing
roll polished	<ul> <li>Seat seal PTFE and other materials</li> </ul>

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## Spring closes (closing with media flow)

Angle valves closing with media flow, spring closes. Use preferably with gaseous media, closing impacts are possible with liquids.

A 0.9 bar higher control pressure is required for the HT version with drive Ø 50 mm.

### Piston drive 50 mm



### Piston drive 80 mm



### Piston drive 125 mm



# Spring opens (closing against media flow)

Angle valves, closing against the media flow, spring opens.

### Piston drive 50 mm



maximum control pressure 1 bar above required control pressure for operating pressure

#### Piston drive 80 mm



#### Piston drive 125 mm





nominal size	max. working pressure	control pressure	drive	Number
DN	(differential pressure)		through-	the
	[bar]	[bar]	knife	feathers
DN15	15	3.5 - 10	50mm	1
DN15	27	4.5 - 10	50mm	2
DN20	5.1	3.5 - 10	50mm	1
DN20	10	4.5 - 10	50mm	2
DN20	16	5.7 - 10	50mm	3
DN25	2.3	3.5 - 10	50mm	1
DN25	5.6	4.5 - 10	50mm	2
DN25	8.9	5.7 - 10	50mm	3
DN25	20	3.5 - 10	80mm	1
DN32	3.1	4.5 - 10	50mm	2
DN32	5.1	5.7 - 10	50mm	3
DN32	11	3.5 - 10	80mm	1
DN32	16	4.4 - 10	80mm	2
DN32	21	5.6 - 10	80mm	3
DN32	10	1.3 - 10	125mm	1

### Spring closes (closing against the media flow)

nominal size DN	max. working pressure (differential pressure)	control pressure	drive through-	Number the
	[bar]	[bar]	knife	feathers
DN32	22	2.2 - 10	125mm	2
DN40	1.9	4.5 - 10	50mm	2
DN40	3.4	5.7 - 10	50mm	3
DN40	6.8	3.5 - 10	80mm	1
DN40	9.6	4.4 - 10	80mm	2
DN40	12	5.6 - 10	80mm	3
DN40	6.3	1.3 - 10	125mm	1
DN40	14	2.2 - 10	125mm	2
DN40	20	3:1-10	125mm	3
DN50	4	3.5 - 10	80mm	1
DN50	5.9	4.4 - 10	80mm	2
DN50	7.7	5.6 - 10	80mm	3
DN50	8.7	2.2 - 10	125mm	2
DN50	12	3:1-10	125mm	3

= standard (2 springs)

## Angle valve type 7050 reinforced version

Stainless steel DN40 and DN50

PN40





### Spring closes (closing with media flow)

Flange valves closing with media flow, spring closes. Use preferably with gaseous media, closing impacts are possible with liquids.

### Piston drive D125 mm - a powerful spring



# Spring opens (closing against media flow)

Flanged valves, closing against the media flow, spring opens.

### Piston drive D125 mm



Piston actuator D125 mm - PEEK seat seal



maximum control pressure 0.5 bar above required control pressure for operating  $\ensuremath{\text{print}}$ 

nominal size	max. working pressure	Tax-	drive diameter	feathers
	(differential pressure)	print	D	
	bar	bar	mm	
DN40	20	3:1-10	125	3
DN40	25	2.8 - 6	250	8th
DN50	12	3:1-10	125	3
DN50	15	2.2 - 6	250	6
DN50	19	2.8 - 6	250	8th
DN50	24	3.7 - 6	250	12
				default

### Spring closes (closing against the media flow)



### Order number system



1. Design 2. Connection	3. casework	4. Seat seal	5. Control function	6. Drive
7 <sub>angle valve</sub> 0 pipe thread ISO 228-1 5 NPT thread	2 Stainless steel PN40	0 PTFE 1 FKM 2 EPDM 3 NBR	<ul> <li>O Spring closes (closing with the media flow)</li> <li>1 Spring opens (closing against the media flow)</li> <li>2 Spring closes (closing against the media flow)</li> <li>3 double-acting</li> </ul>	0 Piston Ø50mm 1 Piston Ø80mm 2 Piston Ø125mm C diaphragm drive D250mm K Piston Ø50mm with plastic hood M Piston Ø80mm with plastic hood

7. Fe	7. Feathers		8. Headstock material 9th		pack	10. temperature		11. A	ccessories	12. (	Other special
							guides			remarks	
-	Default-	-	default	-	default	-	default	-	without accessories	S	special designs
	assembly							1	1 limit signal transmitter		
				2	free of dead space	н	high temperature		(micro switch)	Ν	el. position indicator
1	1 feather				(package lies		execution until	2	2 limit signal transmitters		with plug connection
					below)		+ 200°C		(micro switch)		
2	2 springs					V	outer lip	3	manual override	М	el. position indicator
							seal Viton	4	manual override		with cable
3	3 springs							5	stroke limitation		guide
								6	Pilot valve DN 2, 230 V AC		
Т	6 springs (D250)							7	Pilot valve DN 2, 24 V DC 1		
								K	limit signal transmitter		
W	8 springs (D250)								compact (micro switch)		
								М	2 limit switches		
Y	12 springs (D250)								inductive 10-36 V DC PNP 1		
								Р	limit signal transmitter		
									inductive 10-36 V DC PNP 1		
								Т	limit signal transmitter		
									compact inductive 10-30V		
									DC PNP		

Order example: 7050/050V7020212 - - - 5 Angle valve type 7050, DN 50, Whitworth pipe thread connection, body material stainless steel, seat seal PTFE, spring closes, closing against media flow, drive 80 mm, two springs, stroke limitation.

### **Reinforced version (from DN40):**

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Order example:	7050/050V7020223 55-K Angle valve type 7050, DN 50, Whitworth pipe thread connection, body material stainless
	steel, seat seal PTFE, spring closes, closing against media flow, actuator 125 mm, three springs, stroke limitation, reinforced version
"K" Reinforced ve	ersion

### Angle valve 7050



### mass and weight



spring closes

spring opens

DN	drive	A	В	D	i.e	G	hub	I	Kvs value
15	50	41	139	62	1/2"	1/8"	12	34.5	5.1
20	50	41	140	62	3/4"	1/8"	15.5	34.5	11.5
25	50	41	140.5	62	1"	1/8"	15.5	34.5	20
25	80	41	179.5	98	1"	1/4"	20	55	20
32	50	65	153.5	62	1 1/4"	1/8"	15.5	34.5	25
32	80	65	192.5	98	1 1/4"	1/4"	23	55	30
32	125	65	216.5	144	1 1/4"	1/4"	23	55	30
40	50	65	160.5	62	1 1/2"	1/8"	15.5	34.5	40
40	80	65	199.5	98	1 1/2"	1/4"	28.5	55	45
40	125	65	223.5	144	1 1/2"	1/4"	28.5	55	45
50	80	65	216	98	2"	1/4"	30	55	65
50	125	65	240	144	2"	1/4"	30	55	65

size in mm

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## Angle valve 7050, reinforced version



### mass and weight



DN	drive	A	В	D	i.e	G	hub	Kvs value	Weight [kg]
40	250	65	347	238	1 1/2"	G1/4"	24	42	12.5
50	250	65	355	238	2"	G1/4"	24	49	13.5

size in mm