

2-way Ball Valve S4 Pneumatic Actuator



General:

- Body material: PVC, PP, PVDF
- Sealing material: EPDM, FPM
- Ball seating joint: PTFE
- Dimensions: DN10 – DN80
d20 – d110
1/2" – 4"

Operating pressure:

- PVC PN6 – PN10
- PP PN6 – PN10
- PVDF PN6 – PN10

End Connections:

- PVC solvent socket in DIN, ASTM, JIS
- PVC solvent spigot in DIN
- PVC, PP, PVDF threaded socket in BSP/NPT
- Flanges in DIN, ANSI, JIS, BS
- Fusion socket in PE, PP & PVDF
- Fusion spigot in PE, PP & PVDF

Type of actuator: piston actuator with 2 opposed pistons above tooth rack, elastic seal

Material of actuator:

- Body: aluminium anodised
- End caps: aluminium epoxy powder coated
- Screws and nuts: stainless steel

Control air: filtered air according to PNEURO/ISO class 4

Mounting position: any possible direction

Control function/control pressure:

- DA: double acting/ max. 10 bar
- SR: spring return/ max. 8 bar

Rotation angle: 90°, adjustment in both directions from –10° to +10°

Installation:

- Actuator – valve: ISO 5211
- Actuator – solenoid valve: NAMUR (VDI/VDE3845)
- Actuator – limit switch box: NAMUR (VDI/VDE3845)

Accessories:

- limit switch box
- 3/2 and 5/2 solenoid valves

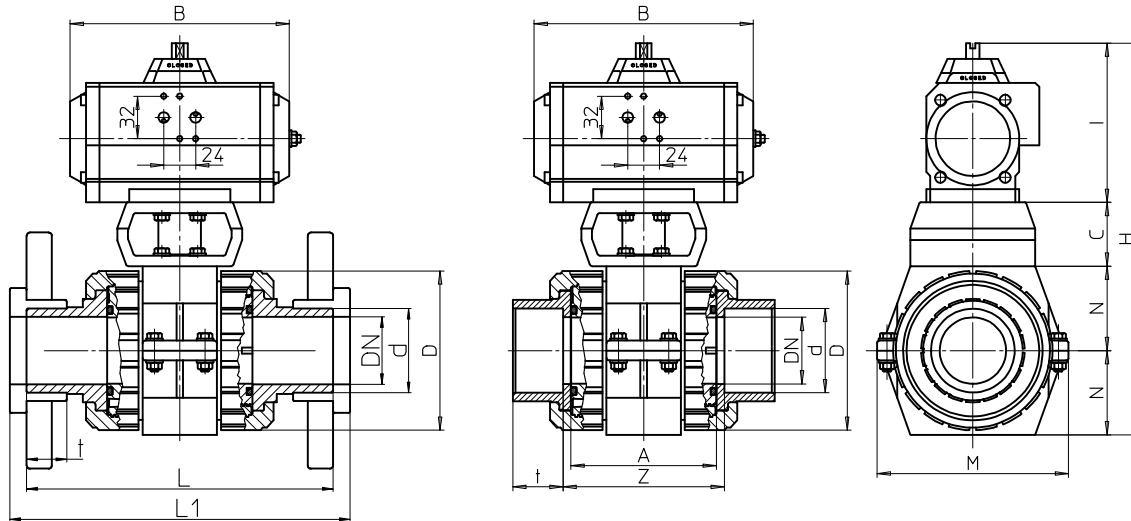
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Dimensions:



d	16	20	25	32	40	50	63	75	90	110
DN	10	15	20	25	32	40	50	65	80	80
G	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A	62	62	70	74	84	95	109	137	163	163
C	38	38	38	38	48	48	48	72,5	72,5	72,5
D	53	53	63	70	85	101	121,5	155	188	188
M	112	113	113	113	144	144	144	204	204	204
N	33	33	40	43	51	56	64	85	100	100
L	114	124	144	154	174	194	224	284	300	340
L1	120	130	150	160	180	200	230	290	310	350
t	16,5	16,5	19,5	22,5	26,5	31,5	38,5	45	55,5	64
Z	67,5	67,5	76	81	90	104	121	148	183	176
PN PVC	10	10	10	10	10	10	10	6	6	6
PN PP	10	10	10	10	10	10	10	6	6	6
PN PVDF	10	10	10	10	10	10	10	6	6	6

Actuator	UT-05 DA				UT-15 DA				UT-17 DA	
B	119	119	119	119	165	165	165	165	197	197
H	205	205	219	225	271	281	297	363,5	393,5	393,5
I	101	101	101	101	121	121	121	121	121	121
Actuator	UT-05 SR				UT-15 SR		UT-17SR	UT-25 SR	UT-30 SR	
B	119	119	119	119	165	165	197	239	230	230
H	205	205	219	225	271	281	297	363,5	434,5	434,5
I	101	101	101	101	121	121	121	143	162	162

*Measurements can deviate slightly from the above!

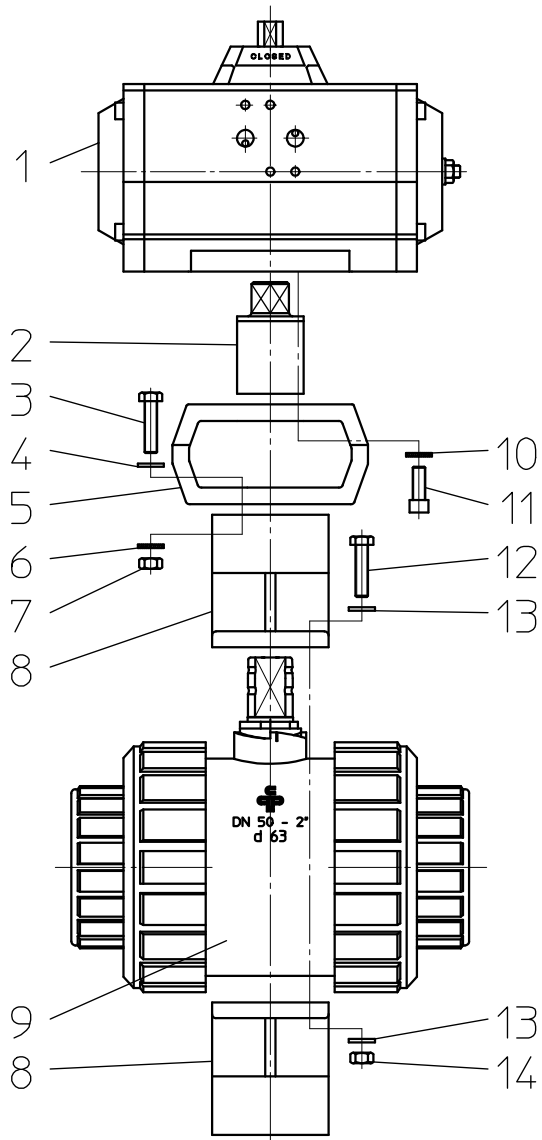


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Exploded diagram:

- 01. pneumatic actuator
- 02. coupling
- 03. screw
- 04. washer
- 05. console
- 06. tooth lock washer
- 07. nut
- 08. valve bracket
- 09. ball valve
- 10. tooth lock washer
- 11. screw
- 12. hex head screw
- 13. washer
- 14. nut

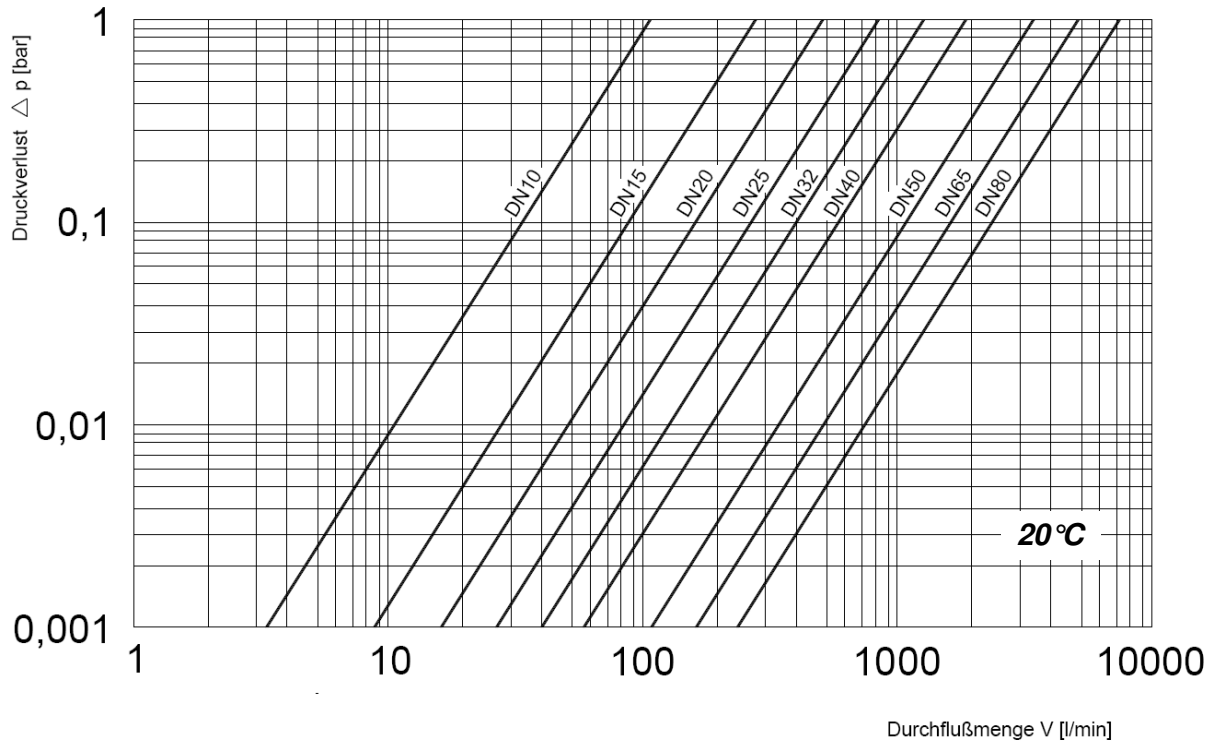


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Diagrams:

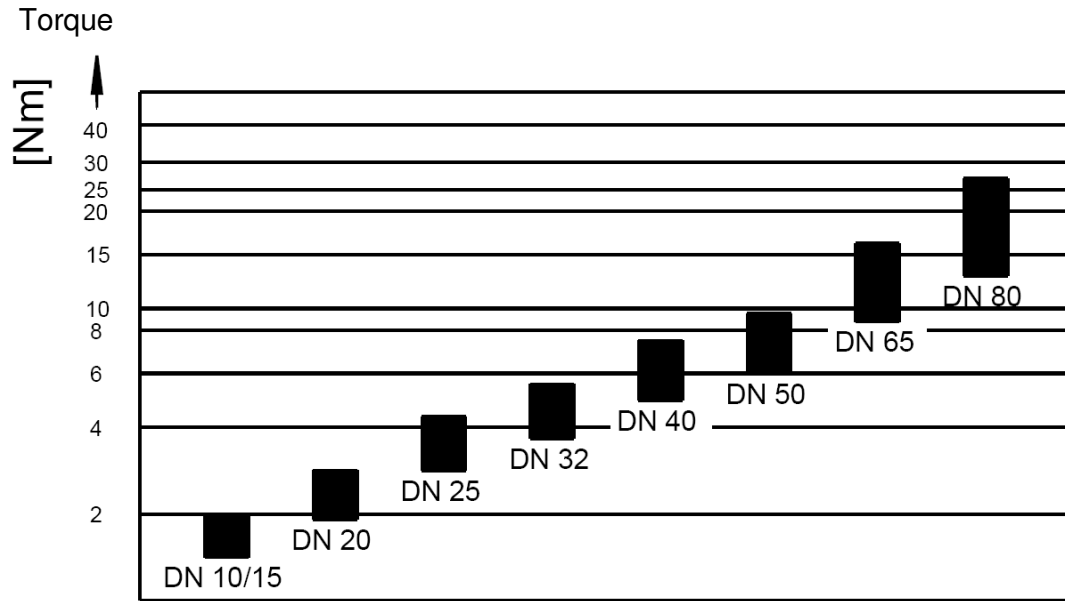
Flow – Pressure Loss - Diagram



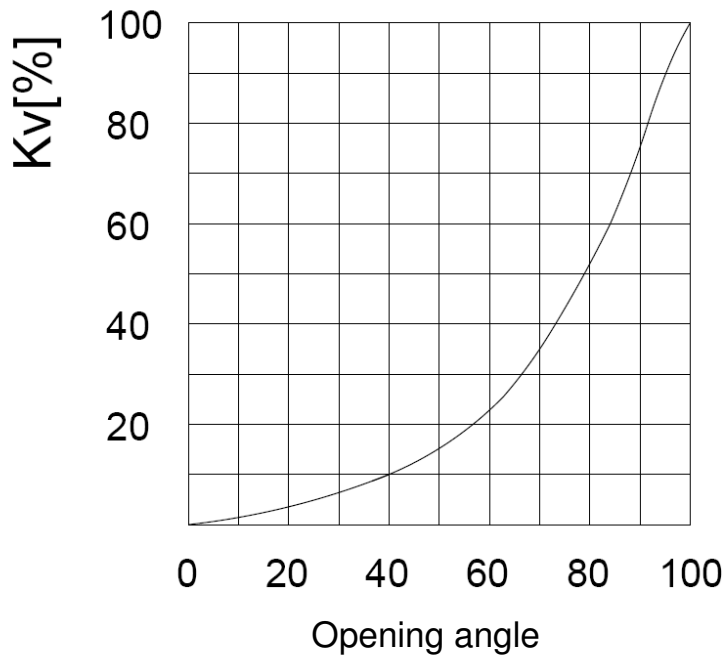
<i>cv Value Table</i>		
Pressure loss	1 bar	0,001 bar
DN 10	107 l/min	3,4 l/min
DN 15	278 l/min	8,8 l/min
DN 20	509 l/min	16,1 l/min
DN 25	843 l/min	26,7 l/min
DN 32	1269 l/min	40,1 l/min
DN 40	1858 l/min	58,7 l/min
DN 50	3424 l/min	110 l/min
DN 65	5133 l/min	165 l/min
DN 80	7455 l/min	240 l/min



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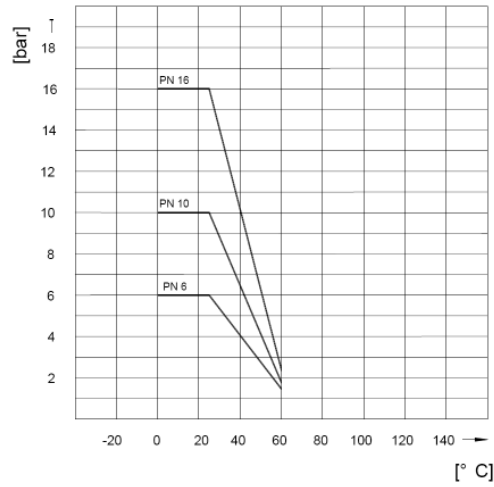
Flow characteristic



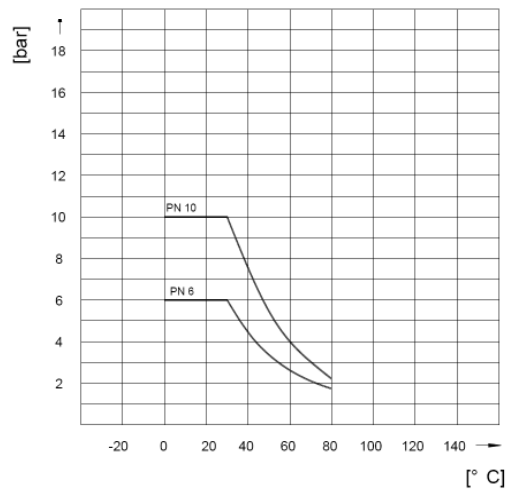
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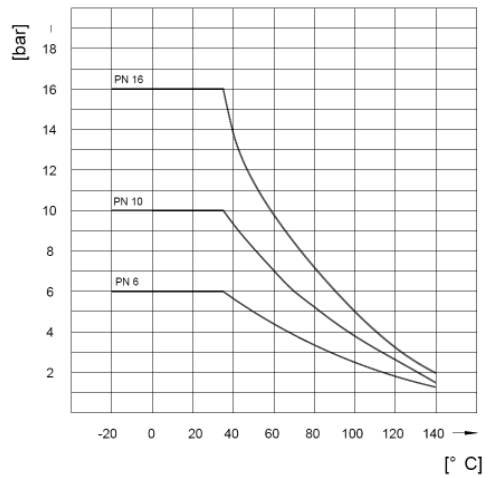
Pressure-Temperature-Diagram **PVC**



Pressure-Temperature-Diagram **PP**



Pressure-Temperature-Diagram **PVDF**



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Accessories:

AIR CONSUMPTION (FULL CYCLE) **DA DOUBLE ACTING**

Actuator	UT17 DA	UT20 DA	UT25 DA	UT35 DA
N. Lt.	0,55	0,71	1,10	2,45

AIR CONSUMPTION (FULL CYCLE) **SR SPRING RETURN**

Actuator	UT25 SR	UT30 SR	UT35 SR	UT45 SR	UT50 SR
N. Lt.	0,48	0,65	1,20	1,85	2,90

LIMIT SWITCH BOX



General Features

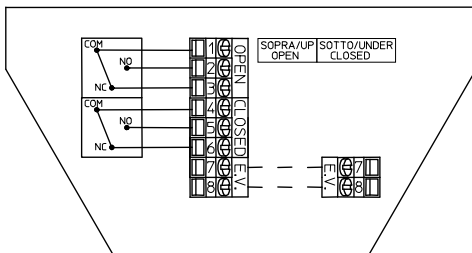
- Limit switch box with 2 mechanical switches
- Protection IP65
- Cable gland M20*1,5

Material

- Body: Polycarbonate black
- Cover: Polycarbonate with indicator
- Mounting bracket + screws: stainless steel
- Seals: EPDM

Voltage: 1-250 V

- Current:
- 16 A (250V AC)
- 2,5 A (24V DC)



SOLENOID VALVE NAMUR



General Features

- Solenoid valve NAMUR with combined 5/2- and 3/2-ways function + standard coil
- Easy change from 5/2- to 3/2-way-function by innovative adaptor plates
- Manual override as standard

Material

- Body: Aluminium, anodised
- Piston: Aluminium
- Seals: NBR
- Screws and spring: stainless steel

Voltage:

- 24 V DC (3W)
- 230 V AC (5VA)

