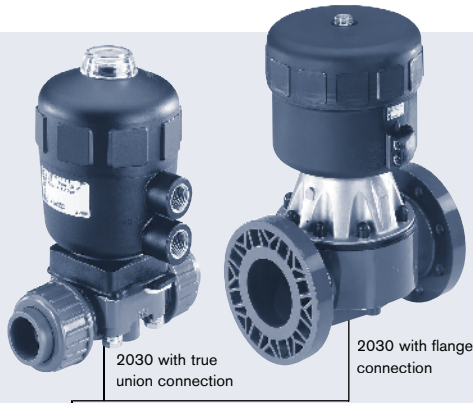
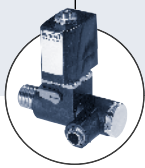


## 2/2-way Diaphragm Valve with plastic body, pneumatically operated, 1/2" – 4"



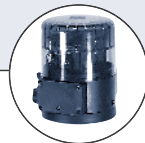
- Applications with aggressive media
- Flow-optimised body with zero dead volume
- Self-draining installation possible
- Removable radial true union, spigot and flange connections

Type 2030 can be combined with...



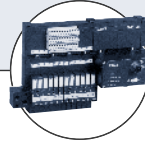
**Type 6012/6014 P**

Pilot valve



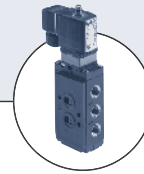
**Type 8631**

TopControl On/Off



**Type 8640/8644**

Valve bank



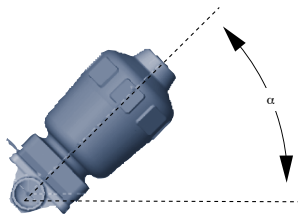
**Type 6519 NAMUR**

Solenoid valve

Pilot controlled diaphragm valve with piston actuator and diaphragm seal.  
As standard, actuator from PA.  
The flow optimised and zero dead volume valve body makes high flow rates possible.

### Installation for self-draining

$\alpha = 15$  to  $30^\circ$

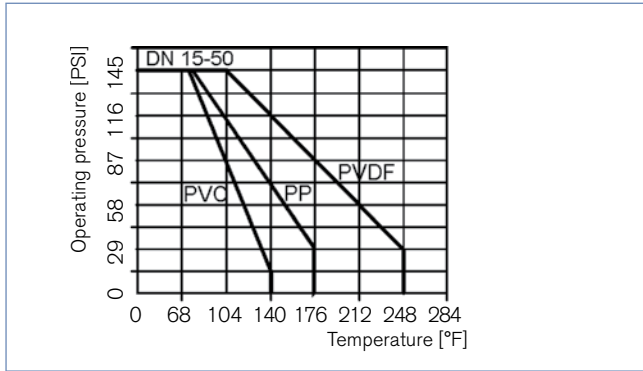


Technical data	
<b>Orifice</b>	1/4" – 4"
<b>Body materials</b>	PVC-U, PP, PVDF
<b>Actuator material</b>	PA polyamide (PPS on request)
<b>Seal material</b>	EPDM, PTFE/EPDM
<b>Media</b>	Neutral gases and liquids, aggressive or abrasive media
<b>Viscosity</b>	No limit
<b>Media temperature</b>	See charts on pg. 2
<b>Ambient temperature</b>	14°F to 140°F (-10 °C to 60°C) (PA) Actuator size $\geq 175$ mm: 14 to 122 °F (-10 to 50 °C)
<b>Control medium</b>	Neutral gases, air
<b>Port connections</b>	DN 15-50: True union and spigot connections DN 65-100: Fixed flanges
<b>Installation</b>	As required, preferably with actuator in upright position

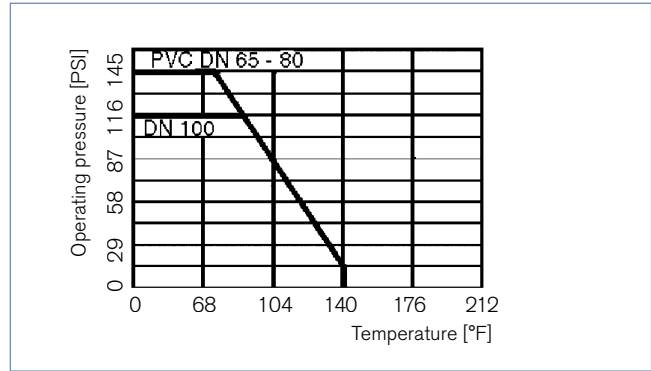
Media temperature

Pressure-temperature compatibility charts

1/2" – 2"



2 1/2" – 4"

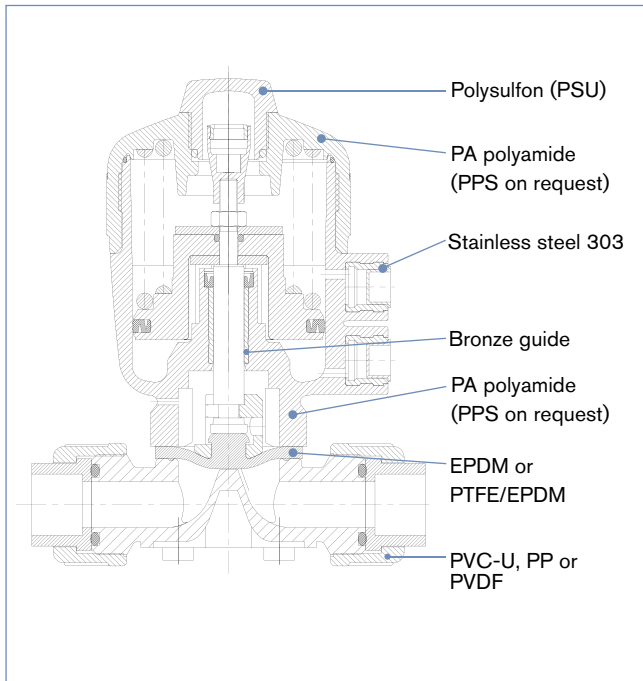


Important for the material selection!

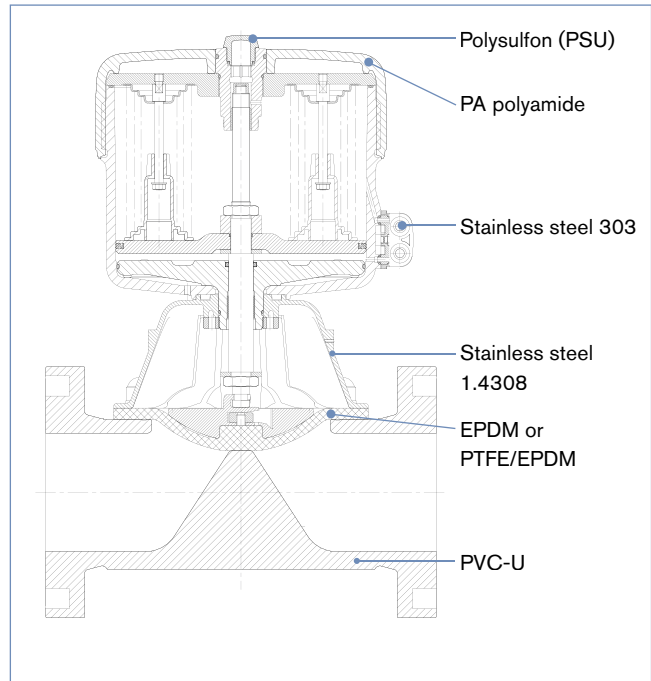
Note that the permissible operating pressure is dependent on the media temperature.

Materials

1/2" – 2"



2 1/2" – 4"



Approvals

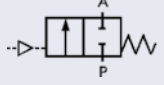
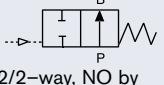
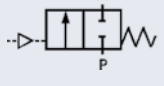
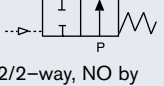
Suitable for foodstuffs



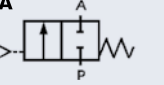
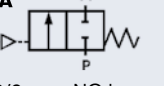
- The composition of the EPDM and PTFE/EPDM diaphragms corresponds to the *Code of Federal Regulations*, published by the *FDA* (Food and Drug Administration, USA).
- The EPDM diaphragms correspond to the *KTW Recommendation* (Plastics in the Drinking Water Sector). A Manufacturer's Declaration will be supplied on request.

## Ordering chart for diaphragm valves with piston actuator (other versions on request)

## Body in PVC-U with true union or spigot connections; 1/2" – 2"

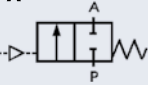
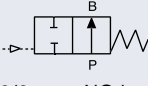
Control function	Orifice [mm]	Port connection [in]	Actuator size Ø [mm]	C <sub>v</sub> value	Minimum pilot pressure [PSI]	Operating pressure [PSI]	Item no. true union
<b>Seal material EPDM</b>							
<b>A</b>  2/2-way, NC by spring action	15	1/2"	63	4.1	72.5	150	US03001
	20	3/4"	63	8.1	80.0	150	US05386
	25	1"	80	12.8	80.0	150	US03003
	32	1 1/4"	100	20.9	80.0	150	US03004
	40	1 1/2"	100	27.8	80.0	94.2	US06547
			125	30.2	80.0	150	US03005
50	2"	125	49.9	80.0	116	162 019	
<b>B</b>  2/2-way, NO by spring action	15	1/2"	63	4.1	see chart 1 on pg. 4	150	US03007
	20	3/4"	63	8.1		150	--
	25	1"	80	12.8		150	US3009
	32	1 1/4"	100	20.9	see chart 2 on pg. 4	150	--
	40	1 1/2"	125	27.8		150	US03011
	50	2"	125	49.9		150	US06378
<b>Seal material PTFE/EPDM</b>							
<b>A</b>  2/2-way, NC by spring action	15	1/2"	63	4.1	72.5	150	US03013
	20	3/4"	80	8.1	72.5	150	US03014
	25	1"	80	12.8	80.0	108.7	165 161
	32	1 1/4"	100	20.9	80.0	116	US03016
	40	1 1/2"	100	27.8	80.0	87.0	--
			125	30.2	80.0	150	US03017
50	2"	125	49.9	80.0	101.5	US03018	
<b>B</b>  2/2-way, NO by spring action	15	1/2"	63	4.1	see chart 3 on pg. 4	150	US03019
	20	3/4"	80	8.1		150	US03020
	25	1"	80	12.8		150	US03021
	32	1 1/4"	100	20.9	see chart 4 on pg. 4	150	--
	40	1 1/2"	125	30.2		150	--
	50	2"	125	49.9		150	US03024

## Body in PVC-U with flange connection; 2 1/2" – 4"

Control function	Orifice [mm]	Port connection	Actuator size Ø [mm]	C <sub>v</sub> value	Minimum pilot pressure [PSI]	Operating pressure [PSI]	Item no. flanges
<b>Seal material EPDM</b>							
<b>A</b>  2/2-way, NC by spring action	65	Fixed flanges	125	63.8	80.0	101.5	--
			175	69.6	65.0	150	--
	80	Fixed flanges	175	116	72.5	72.5	147 840
			225	116	72.5	150	147 842
100	Fixed flanges	225	185.6	72.5	116	--	
<b>Seal material PTFE/EPDM</b>							
<b>A</b>  2/2-way, NC by spring action	65	Fixed flanges	125	63.8	80.0	65.0	--
			175	69.6	65.0	116	--
	80	Fixed flanges	175	116	72.5	65.0	147 847
			225	116	72.5	150	147 849
100	Fixed flanges	225	185.6	72.5	58.0	--	

Ordering chart for diaphragm valves with piston actuator (other versions on request)

Body in PVDF with spigot connections

Control function	Orifice [mm]	Port connection [mm]	Actuator size Ø [mm]	C <sub>v</sub> value	Minimum pilot pressure [PSI]	Operating pressure [PSI]	Item no. spigot
<b>Seal material PTFE/EPDM</b>							
<b>A</b>  2/2-way, NC by spring action	15	20	50	3.5	72.5	72.5	144 296
			63	4.1	72.5	150	141 453
	20	25	63	8.1	80	72.5	144 300
			80	8.1	72.5	150	141 463
			80	12.8	80	108.7	141 470
	25	32	80	12.8	80	108.7	141 470
			100	20.9	80	116	141 476
100			27.8	80	87	144 337	
40	50	100	27.8	80	87	144 337	
		125	30.2	80	150	141 485	
50	63	125	49.9	80	101.5	141 491	
<b>B</b>  2/2-way, NO by spring action	15	20	63	4.1	see chart 3	150	141 501
			80	8.1	150	141 512	
	20	25	80	12.8	150	141 519	
			100	20.9	see chart 4	150	141 525
			125	27.8	150	141 534	
	40	50	125	27.8	150	141 534	
	50	63	125	49.9	150	141 540	



Pilot pressure charts for control function B

Seal material EPDM

Chart 1 - orifice 1/2"-1"

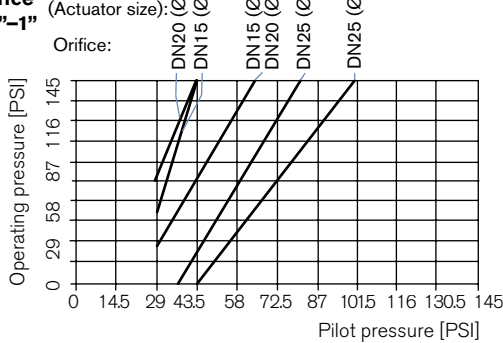
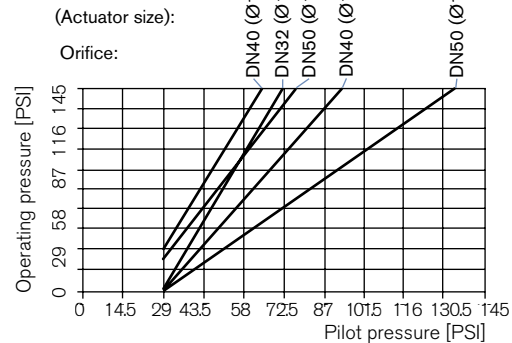


Chart 2 - orifice 1 1/4"-2"



Seal material PTFE/EPDM

Chart 3 - orifice 1/2"-1"

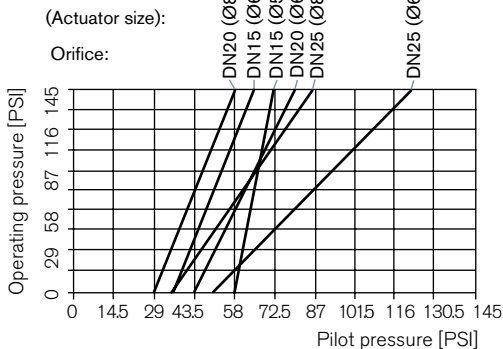
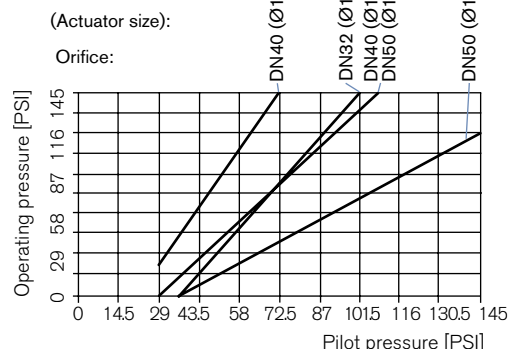


Chart 4 - orifice 1 1/4"-2"



DTS 1000082416 EN Version: - Status: RL (released | freigegeben | validé) printed: 29.08.2013

## Ordering chart for accessories

Pilot valve according to actuator size	Voltage	Item no.
<b>3/2-way pilot valves Type 6012 P/6014 P with banjo mounting, 1/4" NPT</b>		
Type 6012 P for actuator Ø 40 mm	024 V/DC	427 923
	120 VAC/60 Hz	428 551
Type 6012 P for actuator Ø 50 and 63 mm	024 V/DC	428 565
	120 VAC/60 Hz	428 567
Type 6014 P for actuator Ø 80 to 125 mm 80.0	024 V/DC	429 134
	120 VAC/60 Hz	429 136
Type 6014 for actuator Ø 175 and 225 mm	024 V/DC	TBA
Type 6014 for actuator Ø 175 and 225 mm	120 VAC/60 Hz	TBA

**Cable plug Type 2506 Form C or Type 2508 Form A**

(other versions, please see datasheets for Types 2506/2508)

Plug configuration acc. DIN EN 175301-803 (previously DIN 43650)	Item no.
Form C, 0 to 250 V w/o circuit (f. Type 6012 P)	008 353
Form A, 0 to 250 V w/o circuit (f. Type 6014 P)	008 376

**Options and accessories (on request)**

- Control function I (double-acting actuator)
- Electrical position feedback, Type 1060, 1062 and 8631
- Magnetic-inductive proximity sensors, Type 1071
- Stroke limitation max. and min./max.
- Manual override (spring close valve only)
- Namur adapter for pilot valves

<b>G x NPT or G x tube adapters</b>			
Fitting type	Shape	Material	Item no.
Male G 1/8 x F 1/8 NPT	Straight	Nickel plated brass	US61425
Male G 1/8 x 1/4" tube	Straight	Nickel plated brass	US61579
Male G 1/8 x 1/4" tube	Swivel elbow	Nickel plated brass	US61440
Male G 1/4 x 1/4" tube	Straight	Nickel plated brass	US63250
Male G 1/4 x 1/4" tube	Swivel elbow	Nickel plated brass	US63251
Male G 1/4 x F 1/4" NPT	Straight	Nickel plated brass	US62754
Male G 1/4 x F 1/4" NPT	Straight	Stainless steel	US-1053

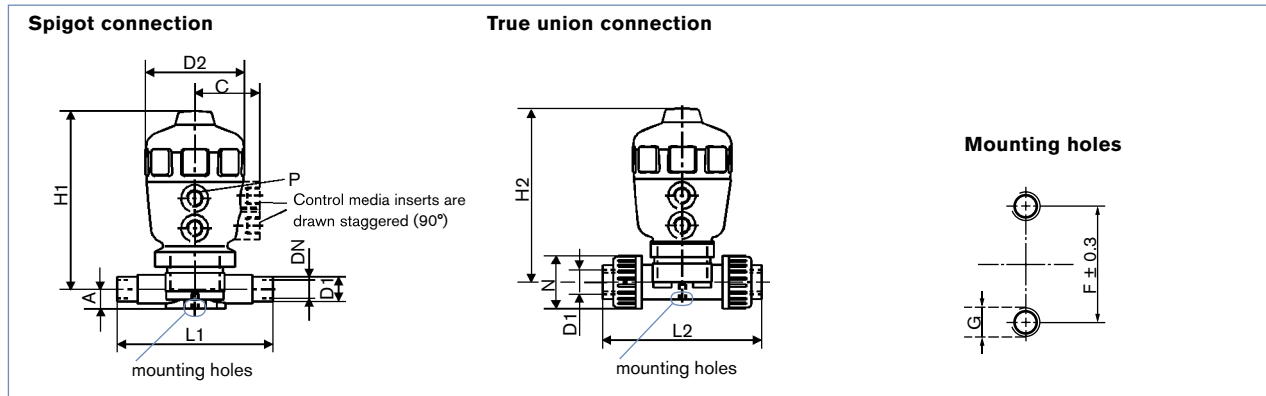
<b>Silencers</b>			
1/8	Straight tube	Polyethylene	CD03892
1/4	Straight tube	Polyethylene	CD01821
G 1/8" Silencer	Straight cone	Sintered bronze	005 305 D
G 1/4" Silencer	Straight cone	Sintered bronze	005 569 D
G 1/4" Silencer	Flat hex	Sintered bronze	780 811 Z

**Note:**

For design reasons, some of the accessories cannot be supplied for actuator sizes Ø 40, Ø 175 and Ø 225 mm. Please request the Accessories data sheet 2000-2031

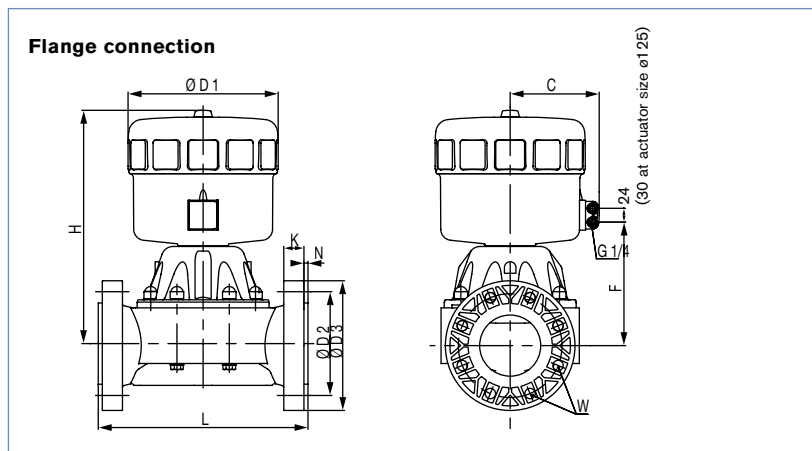
Dimensions

1/2" – 2"



DN [mm]	All bodies						Spigot connection				True union connection			
	Actuator size Ø	C	D2	P	F	G	D1	A	H1	L1	D1	L2	H2	N
15	50	1.5	2.5	G 1/8	1.0	M6	0.8	0.6	4.8	4.9	1/2"	5.0	4.8	1.7
	63	2.0	3.1	G 1/4	1.0	M6	0.8	0.6	5.4	4.9	1/2"	5.0	5.5	1.7
20	63	2.0	3.1	G 1/4	1.0	M6	0.9	0.7	5.7	5.7	3/4"	6.0	5.8	2.1
	80	2.4	4.0	G 1/4	1.0	M6	0.9	0.7	6.8	5.7	3/4"	6.0	6.8	2.1
25	80	2.4	4.0	G 1/4	1.0	M6	1.3	0.8	6.9	6.1	1"	6.5	6.9	2.4
32	100	2.9	5.0	G 1/4	1.8	M8	1.6	1.0	9.0	6.9	1 1/4"	7.6	9.1	2.9
40	100	2.9	5.0	G 1/4	1.8	M8	2.0	1.3	9.3	7.6	1 1/2"	8.7	9.4	3.3
	125	3.4	6.0	G 1/4	1.8	M8	2.0	1.3	10.9	7.6	1 1/2"	8.7	10.9	3.3
50	125	3.4	6.0	G 1/4	1.8	M8	2.5	1.5	11.1	8.8	2"	10.5	11.2	4.0

2 1/2" – 4"



DN [mm]	Actuator size	Port connection	C	D1	D2	D3	F	H	K	L	W
65	125	Fixed flanges	3.4	6.2	5.5	7.3	5.0	11.6	1.1	11.4	4 x 90°
	175	Fixed flanges	5.1	8.3	5.5	7.3	7.1	15.2	1.1	11.4	4 x 90°
80	175	Fixed flanges	5.1	8.3	6.0	7.9	7.8	15.7	1.4	12.2	4 x 90°
	225	Fixed flanges	6.1	10.3	6.0	7.9	7.8	15.5	1.4	12.2	4 x 90°
100	225	Fixed flanges	6.1	10.3	7.5	8.9	8.3	16.1	1.4	13.8	8 x 45°

In case of special application conditions, please consult for advice.

We reserve the right to make technical changes without notice.

0602/3\_US-en