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#### Australia

George Fischer Pty Ltd  
Kingsgrove NSW 2008  
Phone +61(0)2795 54 39 77  
[australia.ps@georgfischer.com](mailto:australia.ps@georgfischer.com)  
[www.georgfischer.com.au](http://www.georgfischer.com.au)

#### Austria

George Fischer  
Rohrleitungssysteme GmbH  
3130 Herzogenburg  
Phone +43(0)2782/856 43-0  
[austria.ps@georgfischer.com](mailto:austria.ps@georgfischer.com)  
[www.georgfischer.at](http://www.georgfischer.at)

#### Belgium/Luxembourg

George Fischer NV/SA  
1070 Bruxelles/Brüssel  
Phone +32(0)2756 40 20  
[be.ps@georgfischer.com](mailto:be.ps@georgfischer.com)  
[www.georgfischer.be](http://www.georgfischer.be)

#### Brazil

George Fischer Ltda  
04795-100 São Paulo  
Phone +55(0)11/5687 1311  
[br.ps@georgfischer.com](mailto:br.ps@georgfischer.com)

#### China

George Fischer  
Piping Systems Ltd Shanghai  
Pudong, Shanghai 201319  
Phone +86(0)21/58 13 33 33  
[china.ps@georgfischer.com](mailto:china.ps@georgfischer.com)  
[www.cn.piping.georgfischer.com](http://www.cn.piping.georgfischer.com)

#### Denmark/Iceland

Georg Fischer A/S  
2630 Taastrup  
Phone +45(0)70 22 19 75  
[info.dk.ps@georgfischer.com](mailto:info.dk.ps@georgfischer.com)  
[www.georgfischer.dk](http://www.georgfischer.dk)

#### France

Georg Fischer S.A.S.  
93208 Saint-Denis Cedex 1  
Phone +33(0)1/492 21 34 1  
[fr.ps@georgfischer.com](mailto:fr.ps@georgfischer.com)  
[www.georgfischer.fr](http://www.georgfischer.fr)

#### Germany

George Fischer GmbH  
73095 Albershausen  
Phone +49(0)7161/302-0  
[info.de.ps@georgfischer.com](mailto:info.de.ps@georgfischer.com)  
[www.vgd.georgfischer.de](http://www.vgd.georgfischer.de)

George Fischer DEKA GmbH  
35232 Dautphetal-Mornshausen  
Phone +49(0)6468/915-0  
[deka.ps@georgfischer.com](mailto:deka.ps@georgfischer.com)  
[www.dekapipe.de](http://www.dekapipe.de)

#### India

George Fischer Piping Systems Ltd  
400 093 Mumbai  
Phone +91(0)22/2820 2362  
[in.ps@georgfischer.com](mailto:in.ps@georgfischer.com)

#### Italy

Georg Fischer S.p.A.  
20063 Cernusco S/N (MI)  
Phone +3902/921 861  
[it.ps@georgfischer.com](mailto:it.ps@georgfischer.com)  
[www.georgfischer.it](http://www.georgfischer.it)

#### Japan

Georg Fischer Ltd  
556-0011 Osaka,  
Phone +81(0)6/6635 2691  
[jp.ps@georgfischer.com](mailto:jp.ps@georgfischer.com)  
[www.georgfischer.jp](http://www.georgfischer.jp)

#### Malaysia

George Fischer (M) Sdn. Bhd.  
47500 Subang Jaya  
Phone +60(0)3-8024 7879  
[conne.kong@georgfischer.com.my](mailto:conne.kong@georgfischer.com.my)

#### Middle East

George Fischer Piping Systems  
Dubai, United Arab Emirates  
Phone +971 4 289 41 20  
[gfdubai@emirates.net.ae](mailto:gfdubai@emirates.net.ae)  
[www.piping.georgfischer.com](http://www.piping.georgfischer.com)

#### Netherlands

George Fischer N.V.  
8161 PA Epe  
Phone +31(0)578/678 222  
[nL.ps@georgfischer.com](mailto:nL.ps@georgfischer.com)  
[www.georgfischer.nl](http://www.georgfischer.nl)

#### Norway

Georg Fischer AS  
1351 Rud  
Phone +47(0)67 18 29 00  
[no.ps@georgfischer.com](mailto:no.ps@georgfischer.com)  
[www.georgfischer.no](http://www.georgfischer.no)

#### Poland

Georg Fischer Sp. z o.o.  
02-226 Warszawa  
Phone +48(0)22/313 10 50  
[poland.ps@georgfischer.com](mailto:poland.ps@georgfischer.com)  
[www.georgfischer.pl](http://www.georgfischer.pl)

#### Romania

Georg Fischer  
Rohrleitungssysteme AG  
70000 Bucharest - Sector 1  
Phone +40(0)1/222 91 36  
[ro.ps@georgfischer.com](mailto:ro.ps@georgfischer.com)

#### Singapore

George Fischer Pte Ltd  
528 872 Singapore  
Phone +65(0)67 47 06 11  
[sgp.ps@georgfischer.com](mailto:sgp.ps@georgfischer.com)  
[www.georgfischer.com.sg](http://www.georgfischer.com.sg)

#### Spain/Portugal

George Fischer S.A.  
28046 Madrid  
Phone +34(0)91/781 98 90  
[es.ps@georgfischer.com](mailto:es.ps@georgfischer.com)  
[www.georgfischer.es](http://www.georgfischer.es)

#### Sweden/Finland

George Fischer AB  
12523 Älvsjö-Stockholm  
Phone +46(0)8/506 775 00  
[info.se.ps@georgfischer.com](mailto:info.se.ps@georgfischer.com)  
[www.georgfischer.se](http://www.georgfischer.se)

#### Switzerland

George Fischer  
Rohrleitungssysteme (Schweiz) AG  
8201 Schaffhausen  
Phone +41(0)52 631 30 26  
[ch.ps@georgfischer.com](mailto:ch.ps@georgfischer.com)  
[www.piping.georgfischer.ch](http://www.piping.georgfischer.ch)

#### Taiwan

Georg Fischer Ltd.  
2F, No. 88, Hsing Te Road  
San Chung City  
Taipei Hsien, Taiwan (R.O.C.)  
Phone +886 2 8512 2822  
Fax +886 2 8512 2823

#### United Kingdom/Ireland

George Fischer Sales Limited  
Coventry, CV2 2ST  
Phone +44(0)2476 535 535  
[uk.ps@georgfischer.com](mailto:uk.ps@georgfischer.com)  
[www.georgfischer.co.uk](http://www.georgfischer.co.uk)

#### USA/Canada/Latin America/Caribbean

George Fischer Inc.  
Tustin, CA 92780-7258  
Phone +1(714) 731 88 00  
Toll Free 800/854 40 90  
[us.ps@georgfischer.com](mailto:us.ps@georgfischer.com)  
[www.us.piping.georgfischer.com](http://www.us.piping.georgfischer.com)

#### Export

George Fischer  
Rohrleitungssysteme (Schweiz) AG  
8201 Schaffhausen  
Phone +41(0)52 631 30 26  
[export.ps@georgfischer.com](mailto:export.ps@georgfischer.com)  
[www.piping.georgfischer.com](http://www.piping.georgfischer.com)

GMST 5938/4 (2.06)

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Printed in Germany

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**GEORG FISCHER**  
PIPING SYSTEMS

Technical  
Documentation

## DIASTAR Pneumatic Diaphragm Valves



# Our Product Family

The DIASTAR family from GF Piping Systems consists of three type series. All three versions are compact and designed for the respective line pressure.

You can choose from a complete range of pneumatically actuated diaphragm valves:

- for applications with high working pressures and closing forces
- for compact installations in the low pressure range

State-of-the-art materials technology and innovative manufacturing methods are the platform on which all three DIASTAR type series are based. Georg Fischer's expertise in developing diaphragm valves ensures that you get:

- best performance
- top quality
- long service life

Our wide range of valve bodies means there are no limits as far as applications are concerned. You are free to choose among PVC-U, PVC-C, ABS, PP-H, PP-n and PVDF. In conjunction with our large selection of diaphragm materials, you can use our valves with almost any chemical in your application. The benefit for you:

- safer conveyance of aggressive media
- an optimal solution for controlling aggressive media

Valve bodies are available with threaded connections, spigots, sockets, flanges or branches, depending on the installation. International standards, such as ISO, BS, ASTM, ANSI and JIS, have of course also been taken into consideration.

## DIASTAR Eco

This actuator has been optimized especially for elastomer diaphragms and 6 bar working pressure. The perfect solution if you are looking for an economical valve with compact dimensions and a long life cycle.

## DIASTAR 028

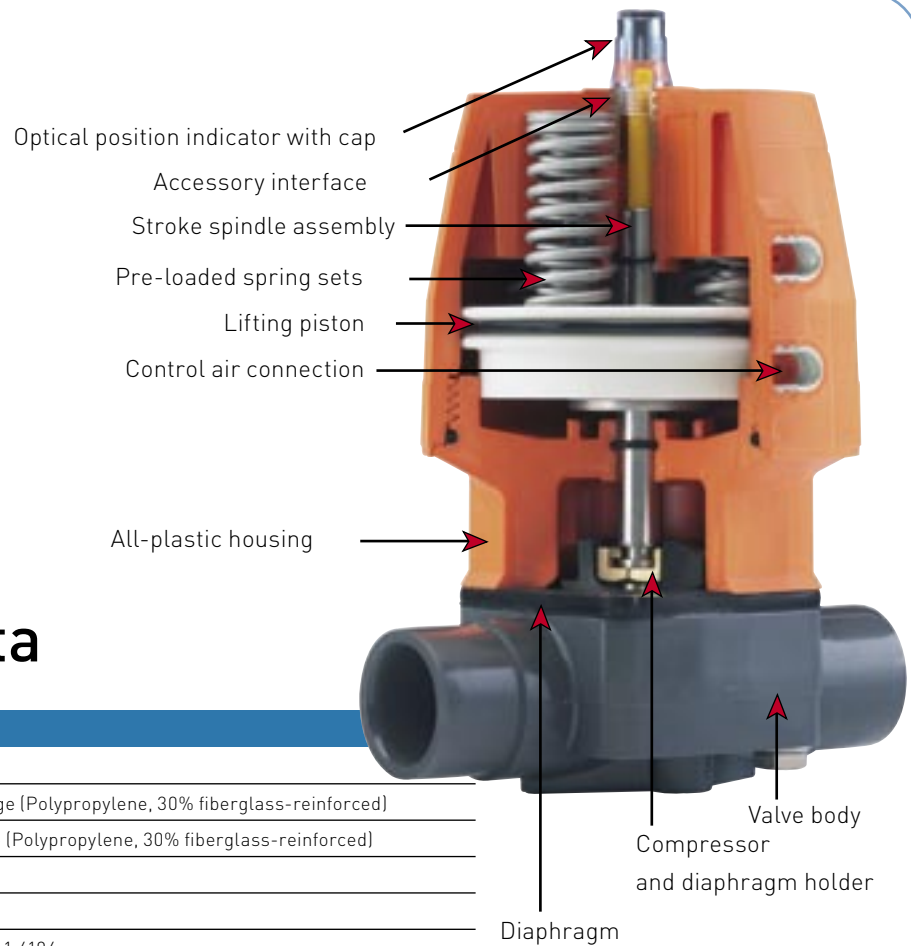
The DIASTAR 028 is ideal for all standard applications up to 10 bar that require integrating accessories. This version has an interface for accessories that allows you to link the actuator effortlessly to your system control. It also features an outstanding price-performance ratio and compact dimensions.

## DIASTAR 025

Our strongest one. Because this type series has the highest closing forces, it is implemented wherever high line pressure, up to 10 bar on both sides, needs to be controlled. The DIASTAR 025 with the integrated accessory interface is also your valve of choice if you place a great deal of importance on easy system integration. Available in the modes of operation: FC, FO and DA.



# Valve design



# Technical data

## Technical data for all type series

### Materials

Housing	PP-GF30 orange (Polypropylene, 30% fiberglass-reinforced)
Pistons	PP-GF30 white (Polypropylene, 30% fiberglass-reinforced)
Position indicator	PP
Indicator cap	SAN
Spindle	Stainless steel 1.4104
Metal inserts	Stainless steel 1.4305
Seals	NBR
Spring sets	Galvanized steel
Control medium	Compressed air (oil-free) / Inert, non-aggressive gases, max. 40°C
Ambient temperature	-10°C to 50°C

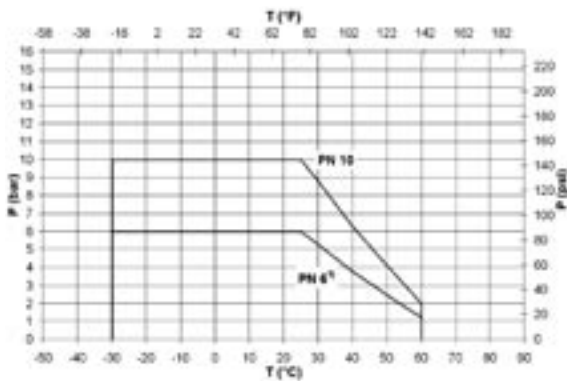
## Specific technical data according to type series

	DIASTAR Eco		DIASTAR 028		DIASTAR 025 FO/DA		DIASTAR 025 FC	
<b>Valve body materials</b>	PVC-U, PVC-C, ABS, PP-H		PVC-U, PVC-C, ABS, PP-H, PP-n, PVDF, PVDF-HP		PVC-U, PVC-C, ABS, PP-H, PP-n, PVDF, PVDF-HP		PVC-U, PVC-C, ABS, PP-H, PP-n, PVDF, PVDF-HP	
<b>Diaphragm materials</b>	EPDM		EPDM, FPM, CSM, NBR, PTFE/EPDM, PTFE/FPM		EPDM, FPM, CSM, NBR, PTFE/EPDM, PTFE/FPM		EPDM, FPM, CSM, NBR, PTFE/EPDM, PTFE/FPM	
<b>Mode of operation</b>	FC		FC		FO / DA		FC	
<b>Nominal diameter</b>	DN15...DN50		DN15...DN50		DN15...DN150		DN15...DN150	
<b>Pressure rating *</b>	EPDM:	PTFE	EPDM:	PTFE	EPDM:	PTFE	EPDM:	PTFE
20DN15	6 bar	-	10 bar	6 bar	10 bar	10 bar	10 bar	10 bar
25DN20	6 bar	-	10 bar	6 bar	10 bar	10 bar	10 bar	10 bar
32DN25	6 bar	-	10 bar	6 bar	10 bar	10 bar	10 bar	10 bar
40DN32	6 bar	-	10 bar	6 bar	10 bar	10 bar	10 bar	10 bar
50DN40	6 bar	-	10 bar	6 bar	10 bar	10 bar	10 bar	10 bar
63DN50	6 bar	-	10 bar	6 bar	10 bar	10 bar	10 bar	10 bar
75DN65	-	-	-	-	10 bar	10 bar	10 bar	10 bar
90DN80	-	-	-	-	10 bar	10 bar	10 bar	10 bar
110DN100	-	-	-	-	6 bar	6 bar	6 bar	6 bar
160DN150	-	-	-	-	6 bar	6 bar	6 bar	-
<b>Medium temperature</b>	-30°C to 80°C *		-30°C to 120° *		-30°C to 120° *		-30°C to 120° *	
<b>Max. control pressure</b>	6 bar		6 bar		5 bar		6 bar	

\* depending on the material of the valve body - see the pressure-temperature-diagrams on the next page

# Diagrams

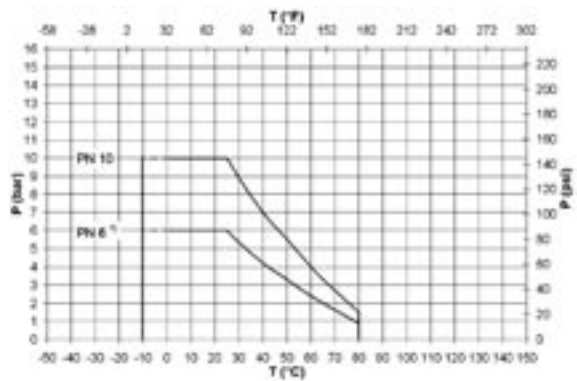
**Pressure-temperature diagram**  
for all diaphragm valves types ABS



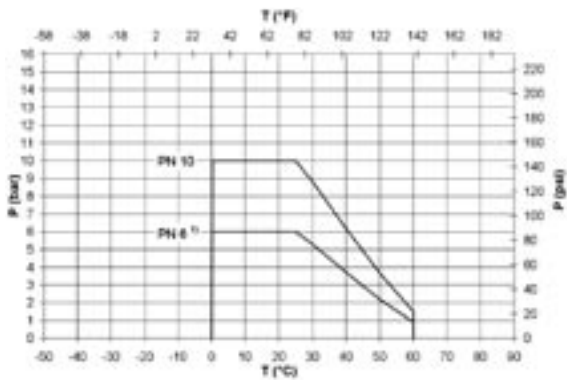
1) DN 100 and DN 150 / Diastar Eco / Diastar 028 with PTFE membrane p permissible pressure in bar / psi  
T Temperature in °C / °F

In case of applications with temperatures in the range of the dotted lines please contact your GF company.

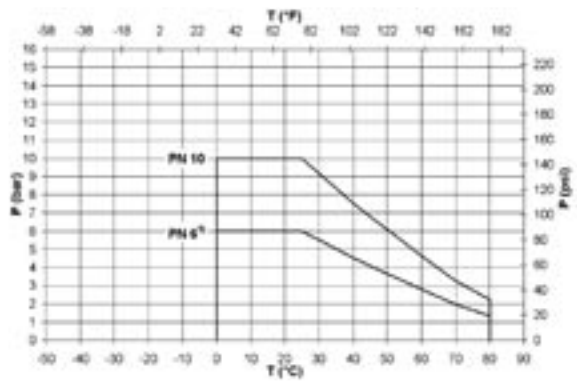
**Pressure-temperature diagram**  
for all diaphragm valves types PP-H



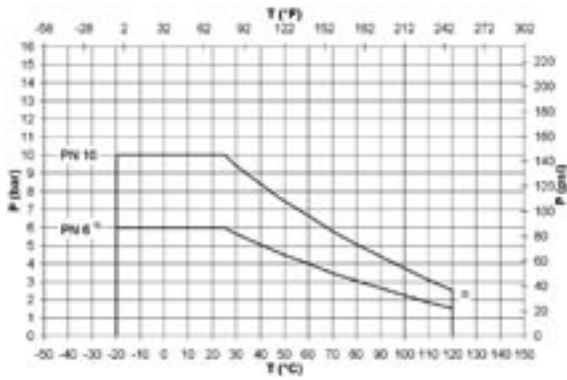
**Pressure-temperature diagram**  
for all diaphragm valves types PVC-U



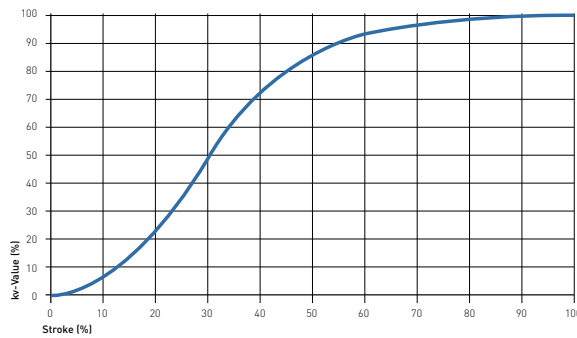
**Pressure-temperature diagram**  
for all diaphragm valves types PVC-C



**Pressure-temperature diagram**  
for all diaphragm valves types PVDF



## Flow characteristics

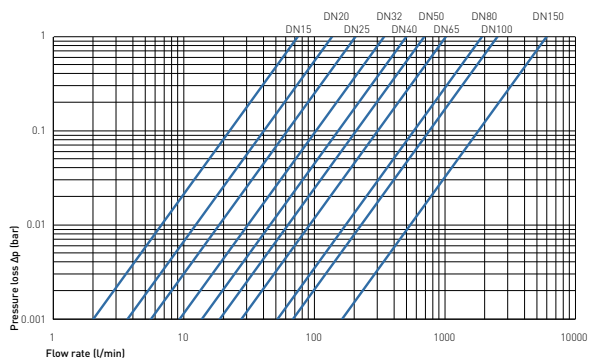


## kv 100 values













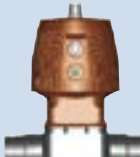







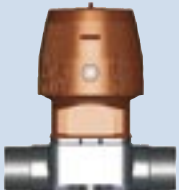









d	DN (mm)	DN (inch)	kv 100 l/min [Δp = 1 bar]	kv 100 m³/h [Δp = 1 bar]
20	15	1/2	72	4.3
25	20	3/4	137	8.2
32	25	1	207	12.4
40	32	1 1/4	354	21.2
50	40	1 1/2	517	31.0
63	50	2	713	42.8
75	65	2 1/2	992	59.5
90	80	3	1700	102.0
110	100	4	2700	162.0
160	150	6	6033	362.0

The kv 100 values combined with the flow characteristics allow determining the kv values for every intermediate position of the valve.

## Pressure loss (Media Water, 20°C)



# Size comparison

DN	Eco	025 DA	025 FO	028 FC	025 FC
15	 1	 1	 1	 1	 2
20	 2	 2	 2	 2	 2
25	 2	 2	 2	 2	 3
32	 3	 3	 3	 3	 4
40	 3	 4	 4	 4	 5
50	 3	 4	 4	 4	 5

# Modes of operation



## FC mode:

Fail-safe-to-close

In the non-operative state, the valve is closed with spring force. When the actuator is pressurized with the control medium (bottom connection), the valve opens. When the control medium escapes, the valve is closed via spring force.



## FO mode:

Fail-safe-to-open

In the non-operative state, the valve is open with spring force. When the actuator is pressurized with the control medium (top connection), the valve closes. When the control medium escapes, the valve is opened via spring force.



## DA mode:

Double acting

The valve has no defined basic position. The valve is opened and closed by applying control pressure to the corresponding connection. (top connection for closing, bottom connection for opening)

## Control medium

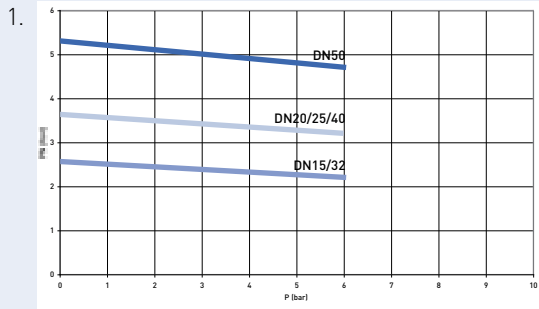
- 6 bar max. for the FC mode; lower control pressures possible by reducing the spring force
- 5 bar max. for the FO and DA operating modes
- depending on the working pressure PN, lower control pressures may be selected. See the next page for the corresponding control pressure diagrams.
- control medium:
  - compressed air (oil-free)
  - inert, non-aggressive gases
- temperature of control medium max. 40°C

## Control volume

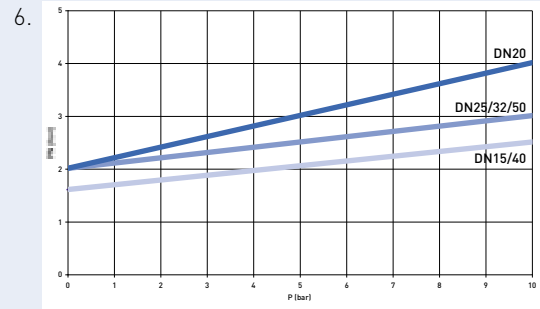
Nominal diameter	DIASTAR Eco (dm <sup>3</sup> )	DIASTAR 028 FC (dm <sup>3</sup> )	DIASTAR 025 DA (dm <sup>3</sup> )		DIASTAR 025 FO	DIASTAR 025 FC
			Close	Open		
20DN15	0.07	0.07	0.07	0.07	0.07	0.20
25DN20	0.20	0.20	0.20	0.20	0.20	0.20
32DN25	0.22	0.22	0.23	0.22	0.23	0.40
40DN32	0.40	0.40	0.44	0.40	0.44	0.78
50DN40	0.44	0.77	0.86	0.77	0.86	0.85
63DN50	0.44	1.20	1.52	1.20	1.52	1.33
75DN65	-	-	4.40	2.20	4.40	2.20
90DN80	-	-	4.40	2.20	4.40	2.20
110DN100	-	-	7.60	3.80	7.60	3.80
160DN150	-	-	7.60	3.80	7.60	3.80

# Control pressure diagrams

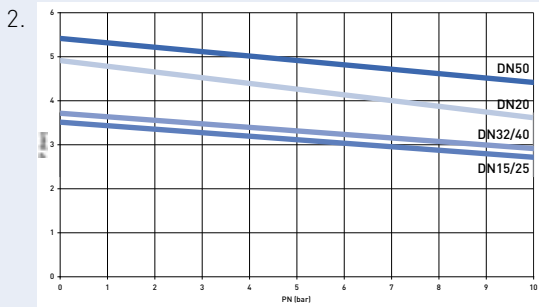
Control pressure diagram type Eco FC with EPDM-diaphragm



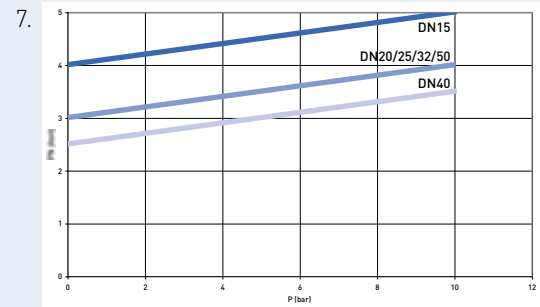
Control pressure diagram type 025 FO / DA with EPDM-diaphragm



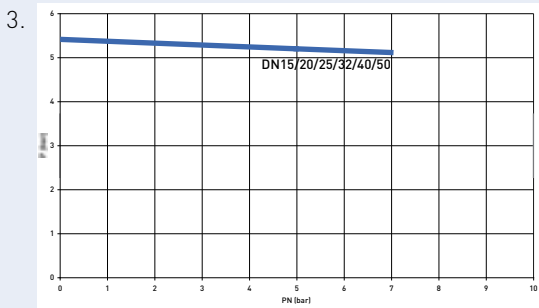
Control pressure diagram type 028 FC with EPDM-diaphragm



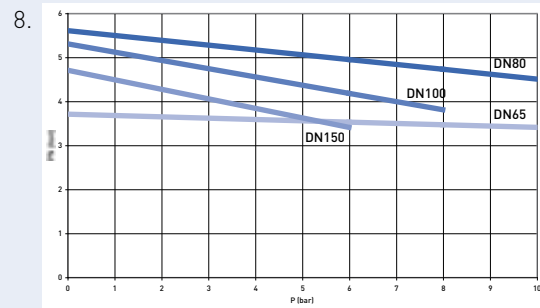
Control pressure diagram type 025 FO / DA with PTFE-diaphragm



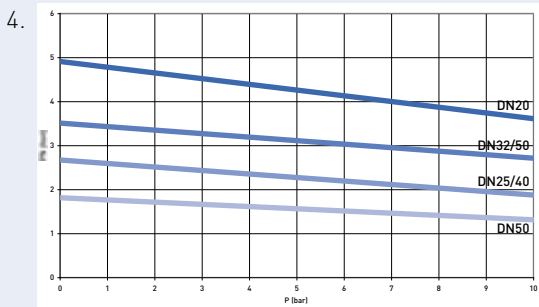
Control pressure diagram type 028 FC with PTFE-diaphragm



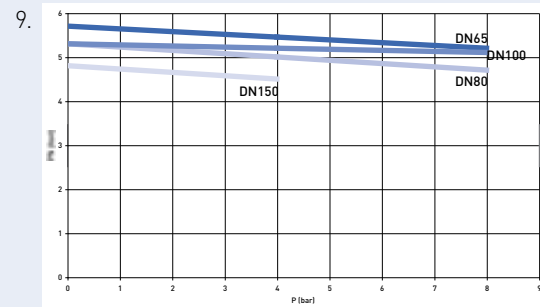
Control pressure diagram type 025 FC with EPDM-diaphragm



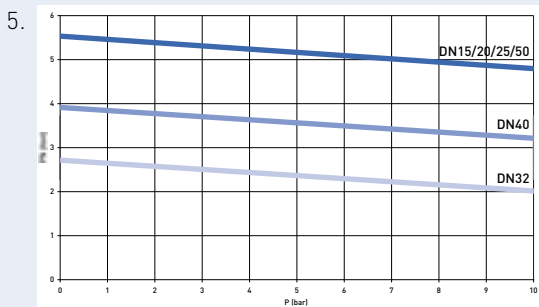
Control pressure diagram type 025 FC with EPDM-diaphragm



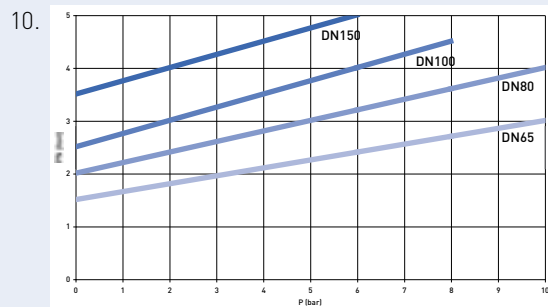
Control pressure diagram type 025 FC with PTFE-diaphragm



Control pressure diagram type 025 FC with PTFE-diaphragm

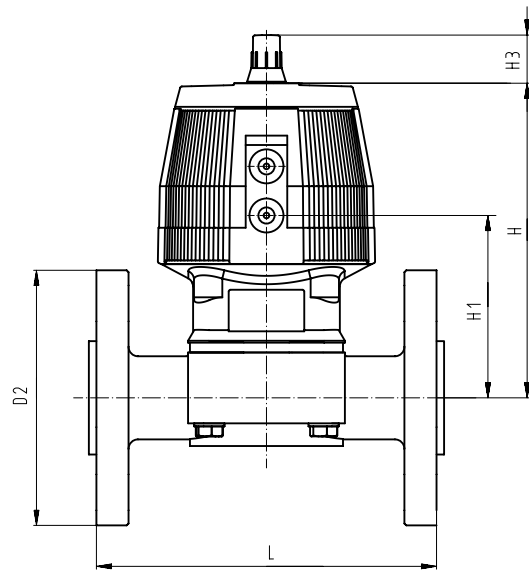
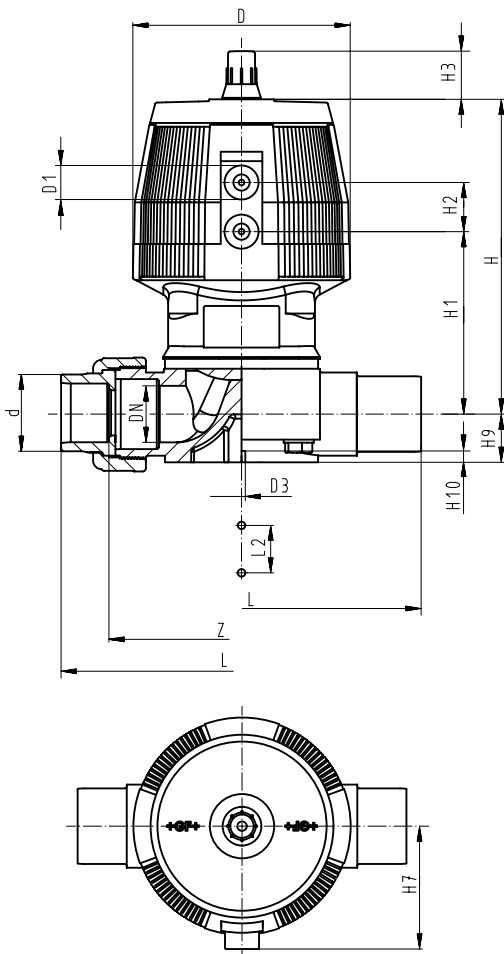


Control pressure diagram type 025 FO / DA with EPDM/PTFE-diaphragm





# DIASTAR dimensions



## Indices

- (1) Cemented spigot / socket fusion spigot / butt fusion spigot
- (2) BCF fusion spigot
- (3) Union with cemented socket ISO/DIN
- (4) Union with fusion socket ISO/DIN
- (5) Union with butt fusion spigot ISO/DIN (PP)
- (6) Union with butt fusion spigot ISO/DIN (PVDF)
- (7) Union with BCF fusion spigot
- (8) Backing flange ISO/DIN
- (9) Union with threaded socket

## DIASTAR Eco series

d [mm]	DN [mm]	D [mm]	D1 [G]	D2 [mm]	D3 [mm]	L (1) [mm]	L (2) [mm]	L (3) [mm]	L (4) [mm]	L (5) [mm]	L (6) [mm]	L (7) [mm]	L (8) [mm]	L (9) [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H7 [mm]	H9 [mm]	H10 [mm]	Z (3) [mm]	Z (4) [mm]	Z (9) [mm]	Stroke [mm]
20	15	68	1/8	95	M6	124	-	128	128	196	-	-	130	128	25	99	59	-	-	44	14	12	96	100	102	8
25	20	96	1/8	105	M6	144	-	152	150	221	-	-	150	152	25	130	71	-	-	56	18	12	114	118	122	10
32	25	96	1/8	115	M6	154	-	166	162	234	-	-	160	166	25	143	85	-	-	56	21	12	122	126	132	12
40	30	120	1/8	140	M8	174	-	192	184	260	-	-	180	192	45	170	97	-	-	68	26	15	140	144	154	14
50	40	120	1/8	150	M8	194	-	222	210	284	-	-	200	222	45	182	109	-	-	68	33	15	160	164	184	16
63	50	120	1/8	165	M8	224	-	266	248	321	-	-	230	266	45	199	126	-	-	68	39	15	190	194	220	16

## DIASTAR 028 FC series

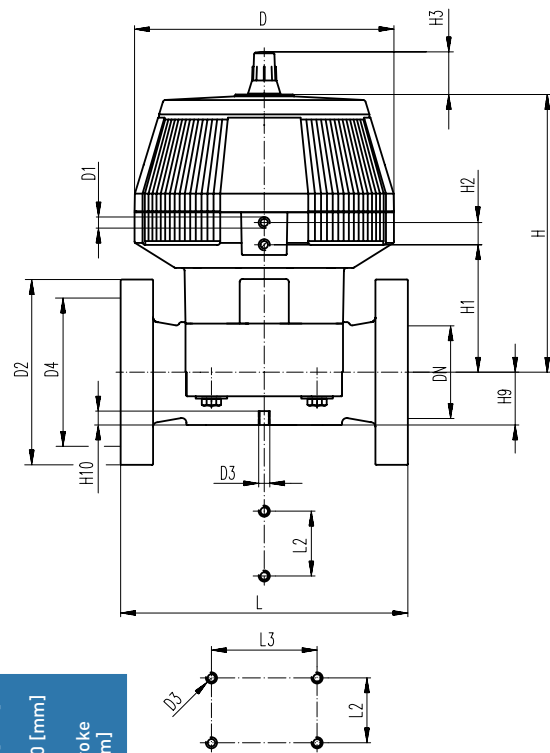
d [mm]	DN [mm]	D [mm]	D1 [G]	D2 [mm]	D3 [mm]	L (1) [mm]	L (2) [mm]	L (3) [mm]	L (4) [mm]	L (5) [mm]	L (6) [mm]	L (7) [mm]	L (8) [mm]	L (9) [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H7 [mm]	H9 [mm]	H10 [mm]	Z (3) [mm]	Z (4) [mm]	Z (9) [mm]	Stroke [mm]
20	15	68	1/8	95	M6	124	133	128	128	196	196	225	130	128	25	99	59	24	23	44	14	12	96	100	102	8
25	20	96	1/8	105	M6	144	144	152	150	221	220	242	150	152	25	130	71	25	23	56	18	12	114	118	122	10
32	25	96	1/8	115	M6	154	154	166	162	234	234	254	160	166	25	143	85	25	23	56	21	12	122	126	132	12
40	30	120	1/8	140	M8	174	199	192	184	260	258	308	180	192	45	170	97	26	36	68	26	15	140	144	154	14
50	40	150	1/4	150	M8	194	205	222	210	284	284	330	200	222	45	203	108	36	36	85	33	15	160	164	184	18
63	50	150	1/4	165	M8	224	224	266	248	321	320	373	230	266	45	220	126	36	36	85	39	15	190	194	220	22

## DIASTAR 025FO/DA series

d [mm]	DN [mm]	D [mm]	D1 [G]	D2 [mm]	D3 [mm]	L (1) [mm]	L (2) [mm]	L (3) [mm]	L (4) [mm]	L (5) [mm]	L (6) [mm]	L (7) [mm]	L (8) [mm]	L (9) [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H7 [mm]	H9 [mm]	H10 [mm]	Z (3) [mm]	Z (4) [mm]	Z (9) [mm]	Stroke [mm]
20	15	68	1/8	95	M6	124	133	128	128	196	196	225	130	128	25	99	59	24	23	44	14	12	96	100	102	8
25	20	96	1/8	105	M6	144	144	152	150	221	220	242	150	152	25	130	71	25	23	56	18	12	114	118	122	10
32	25	96	1/8	115	M6	154	154	166	162	234	234	254	160	166	25	143	85	25	23	56	21	12	122	126	132	12
40	30	120	1/8	140	M8	174	199	192	184	260	258	308	180	192	45	170	97	26	36	68	26	15	140	144	154	14
50	40	150	1/4	150	M8	194	205	222	210	284	284	330	200	222	45	203	108	36	36	85	33	15	160	164	184	18
63	50	150	1/4	165	M8	224	224	266	248	321	320	373	230	266	45	220	126	36	36	85	39	15	190	194	220	22

## DIASTAR 025 FC series

d [mm]	DN [mm]	D [mm]	D1 [G]	D2 [mm]	D3 [mm]	L (1) [mm]	L (2) [mm]	L (3) [mm]	L (4) [mm]	L (5) [mm]	L (6) [mm]	L (7) [mm]	L (8) [mm]	L (9) [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H7 [mm]	H9 [mm]	H10 [mm]	Z (3) [mm]	Z (4) [mm]	Z (9) [mm]	Stroke [mm]
20	15	96	1/8	95	M6	124	133	128	128	196	196	225	130	128	25	128	69	25	23	56	14	12	96	100	102	8
25	20	96	1/8	105	M6	144	144	152	150	221	220	242	150	152	25	130	71	25	23	56	18	12	114	118	122	10
32	25	120	1/8	115	M6	154	154	166	162	234	234	254	160	166	25	166	93	26	23	68	21	12	122	126	132	12
40	30	150	1/4	140	M8	174	199	192	184	260	258	308	180	192	45	201	106	36	36	85	26	15	140	144	154	14
50	40	180	1/4	150	M8	194	205	222	210	284	284	330	200	222	45	233	119	37	36	101	33	15	160	164	184	18
63	50	180	1/4	165	M8	224	224	266	248	321	320	373	230	266	45	247	133	37	36	101	39	15	190	194	220	22



## DIASTAR 025 FC/FO/DA DN65...DN150

d [mm]	DN [mm]	D [mm]	D1 [G]	D2 [mm]	D3 [mm]	D4 [mm]	L [mm]	L2 [mm]	L3 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H9 [mm]	H10 [mm]	Stroke [mm]
75	65	280	1/4	185	M8	145	290	70	-	298	148	24	46	46	15	30
90	80	280	1/4	200	M12	160	310	120	-	302	150	24	46	57	15	35
110	100	335	1/4	225	M12	180	350	120	-	409	176	24	46	69	20	40
160	150	335	1/4	285	M12	240	480	100	200	201	237	24	46	108	20	40

# Accessories

## Solenoid pilot valve



### Description

#### Type PV94

3/2-way solenoid valve for controlling single acting pneumatic actuators in the dimensions DN15-DN50. Mounted with a banjo bolt directly on the actuator.

For the control air connection, a G 1/8, G 1/4 and 6 mm hose coupling is available. The following voltages are available for the PV94:

- 230V, 50-60Hz
- 115V, 50-60Hz
- 24V, 50-60Hz
- 24VDC

#### Type PV95

3/2-way solenoid valve for controlling single acting pneumatic actuators in the dimensions DN65-DN150. Mounted with a banjo bolt directly on the actuator.

For the control air connection, a G 1/8 and G 1/4 is available.

The solenoid valve is available in the dimensions DN1.5 and DN2 as well as in the following voltages:

- 230V, 50-60Hz
- 115V, 50-60Hz
- 24V, 50-60Hz
- 24VDC

#### MNL532

3/2 and 5/2-way solenoid valve for controlling double acting actuators. Mounted via a Namur connection. For the dimension range DIASTAR DN15-DN50 a Namur mounting plate needs to be installed between the actuator and the pilot valve.

- 230V, 50-60Hz
- 115V, 50-60Hz
- 48V, 50-60Hz
- 24V, 50-60Hz
- 24VDC

#### PV2000

For simultaneous controlling of several actuators, we offer the PV2000 valve cluster. The cluster consists of a connecting module, several pilot valves and an end module. Depending on the application, a connecting module for the D-Sub plug, AS Interface or Profibus can be selected. The modular system allows combining 3/2 and 5/2-way valves as required by the application.

## Stroke limiter / Emergency manual override



### Description

Stroke limiter / Emergency manual override

Used to limit the minimum and maximum stroke and for emergency manual override.

With the help of adapters, the stroke limiter can also be used together with our electrical position indicator ER52/53.

# Accessories

## Feedback



### Description

#### ER55

The ER55 has a Reed contact which is activated via a magnet in the position indicator. The Reed contact can be set so that either the open or closed position is indicated. To show both positions, the ER55 can be retrofitted with a second Reed contact.

#### ER52 & ER53

The ER52/53 is an electrical position indicator device with two limit switches and can therefore indicate both the open and the closed positions. The limit switches are activated with cams which are self-adjusting. The ER52/53 is available with the following limit switches.

- ER52 & ER53 silver-nickel (AG-Ni)
- ER52 & ER53 gold contacts (AU)
- ER52 & ER53 inductive switch NPN
- ER52 & ER53 inductive switch PNP
- ER52 & ER53 inductive switch NAMUR

## Positioner



### Description

#### DSR

The digital positioner type DSR100 and 101 is the ideal product for control applications using our pneumatic valves. The microprocessor-controlled positioner features a compact and uncomplicated design that simplifies installation.

The positioner is supplied with or without optical indicator.

## Bus communication



### Description

#### AS-Interface

Modern plants with conventional valve control require more and more installation and maintenance efforts. The GF AS-i controller enables state-of-the-art bus communication at very little expense. The controller contains all the necessary electric and pneumatic components; installing a serial cable and the air connections is all that is required to be able to independently control up to 62 valves.