

Excellence is our passion  
We add value

# Control and regulate your process



# Your global system provider



### GF Piping Systems – Innovative in design and technologies

We are dedicated to designing, manufacturing and marketing piping systems for the safe and secure conveyance of liquids and gases. GF Piping Systems also provides innovative solutions for connection systems and flow control.

GF Piping Systems provides products suitable for the safe transport of water, gas and other media in a variety of applications.

Its customized system solutions are used in industrial applications. In the gas and water distribution industries and in domestic installations, for which GF Piping Systems develops and produces a wide range of high-quality components using plastics.

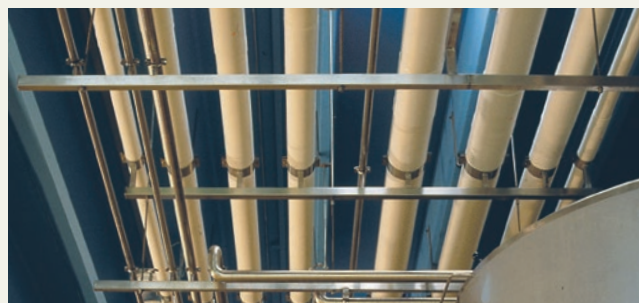
Joining systems are a core competence common to all areas of activity, providing extensive materials and technological know-how that ensures joints are always leak-proof.

### GF Piping Systems – your global partner

This know-how is required to prevent leaks and contamination in pressurized piping systems in particular. Whether it be welding, bonding, clamping, moulding or simply inserting. GF Piping Systems has the ideal technology for a consistently secure connection.

### GF Piping Systems – Quality by design

Quality Management: Our systems and products undergo rigorous testing in accredited test laboratories, and our management and production procedures are certified to ISO 9001 and ISO 14001 thus ensuring that the systems and products we provide are fit for the purpose, and may be used reliably throughout the world.

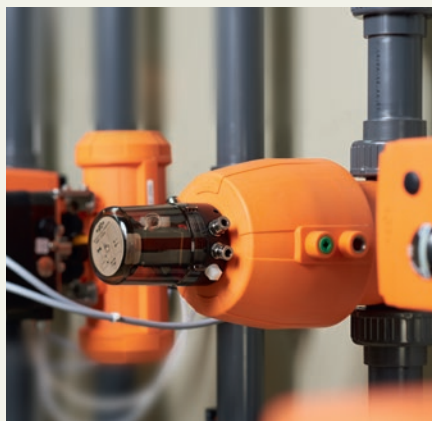


# Support and service included

**Innovative products and first-class service – inseparable for GF Piping Systems. For us, it goes without saying that we support you in every stage of your project. Our competent employees discuss the technical details with you on location and put together a package for your specific application. This means you always have a system solution which is exactly right for you.**



Valves



Actuation



Measurement and instrumentation

## + Planning made easy

### CAD product library

GF Piping Systems supplies a CAD product library free of charge – an excellent tool for planning and visualization. You will find our product ranges in many 2D/3D data formats.

More information at:

[www.gfps.com/cad](http://www.gfps.com/cad)

### Systems:

AutoCAD®, Autodesk Revit®, Inventor®, CATIA, many others



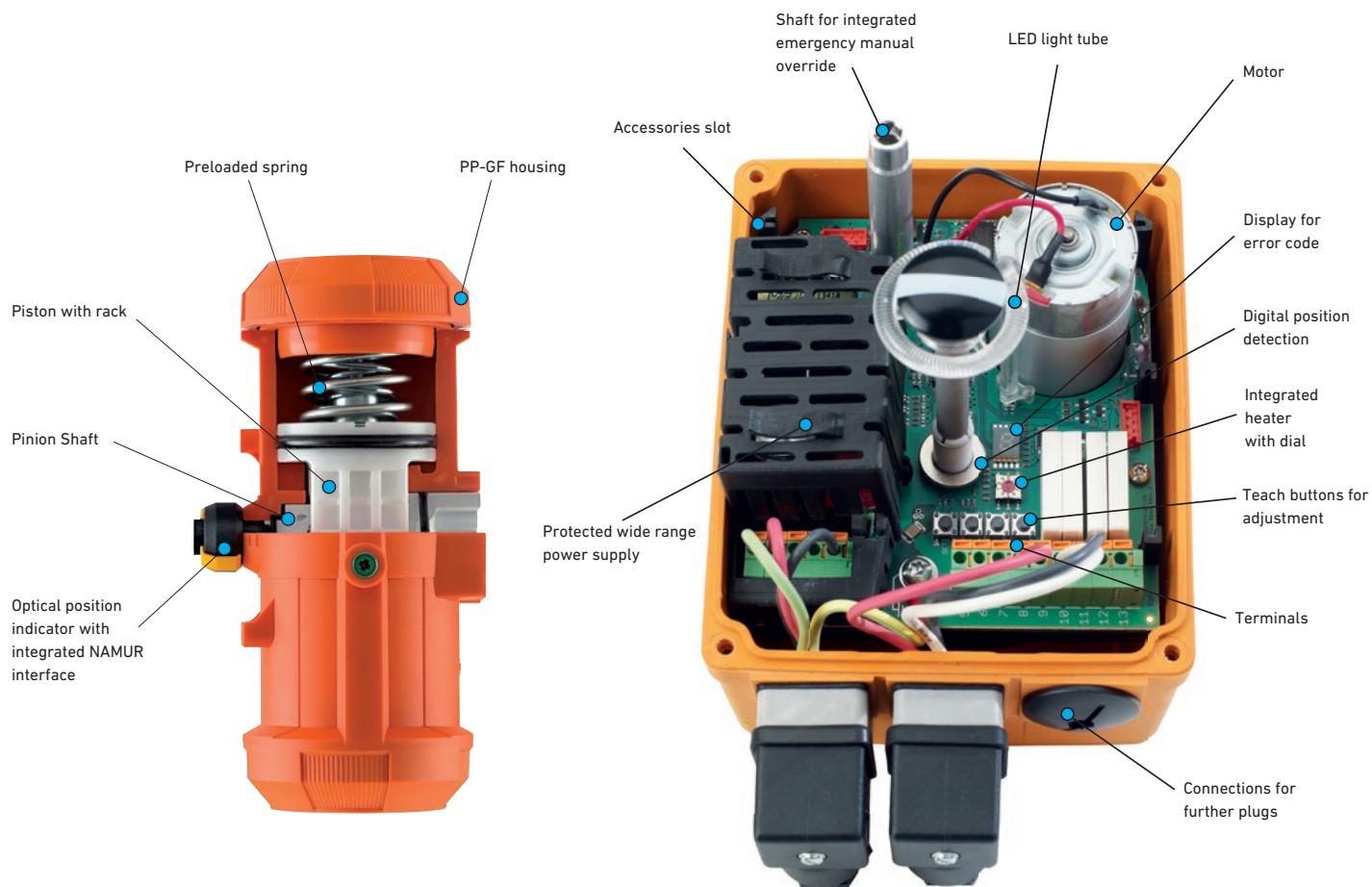
# Diaphragm valves

What is important and what isn't? GF Piping Systems asked about the requirements and that was the basis for developing the technical solutions. This way of proceeding is what makes the valve so extraordinary. In the new generation of diaphragm valves, there is something over and above innovation in details that is crucial for success. The optimized valve body guarantees the sensational flow rate. The installation length is identical to the length in the previous model and this makes for problem-free backward-compatibility. The central housing nut holds everything together with a new level of reliability. There are many other characteristics that make the new generation of diaphragm valves a globally successful product innovation.



# Actuators

GF Piping Systems presents a complete range of actuators which includes pneumatic actuators as well as electric actuators. Thanks to their modular design, the actuators can be configured specifically to your application (e.g. positioner, additional limits switches, fail-safe unit, AS-Interface connection, etc.) Housing material of choice is the robust and resistant PP-GF. All actuators feature an extreme long life time. Connections to third party valves are no problem due to the EN ISO 5211 interface.



Pneumatic actuator  
PA11  
5 Nm (10 Nm peak)



Pneumatic actuator  
PA21  
10 Nm (20 Nm peak)



Electric actuator  
EA15  
10 Nm (20 Nm peak)



Electric actuator  
EA25  
10 Nm (25 Nm peak)



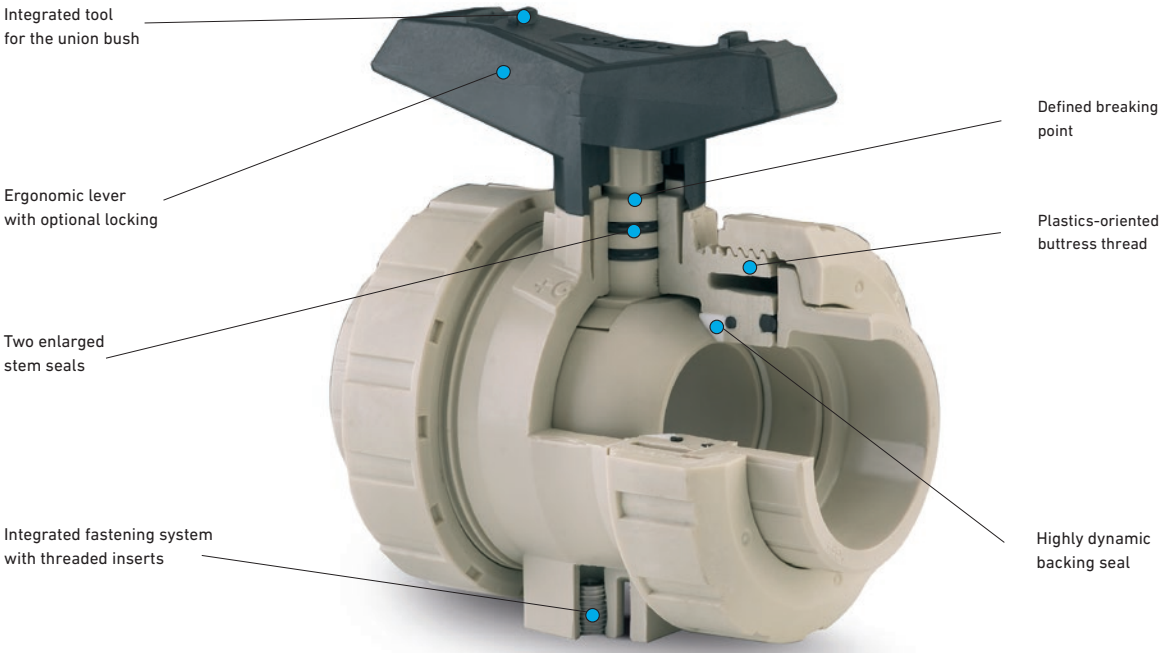
Electric actuator  
EA120  
60 Nm (120 Nm peak)



Electric actuator  
EA250  
100 Nm (250 Nm peak)

# Ball valves

The ball valve is extremely versatile. From the no-frills standard version to the high-tech actuated version and with a wide range of accessories to choose from, GF Piping Systems has a model that fits your needs exactly. Even the manual version has additional options. The multifunctional module provides feedback on the «open/closed» valve position in a variety of signals. It also serves as an interface for electric or pneumatic actuators.



Standard ball valve d16/DN10 – d63/DN50 type 546

Ball valve with multifunctional module and lockable handle

Ball valve with pneumatic actuator and manual override

Ball valve with electric actuator

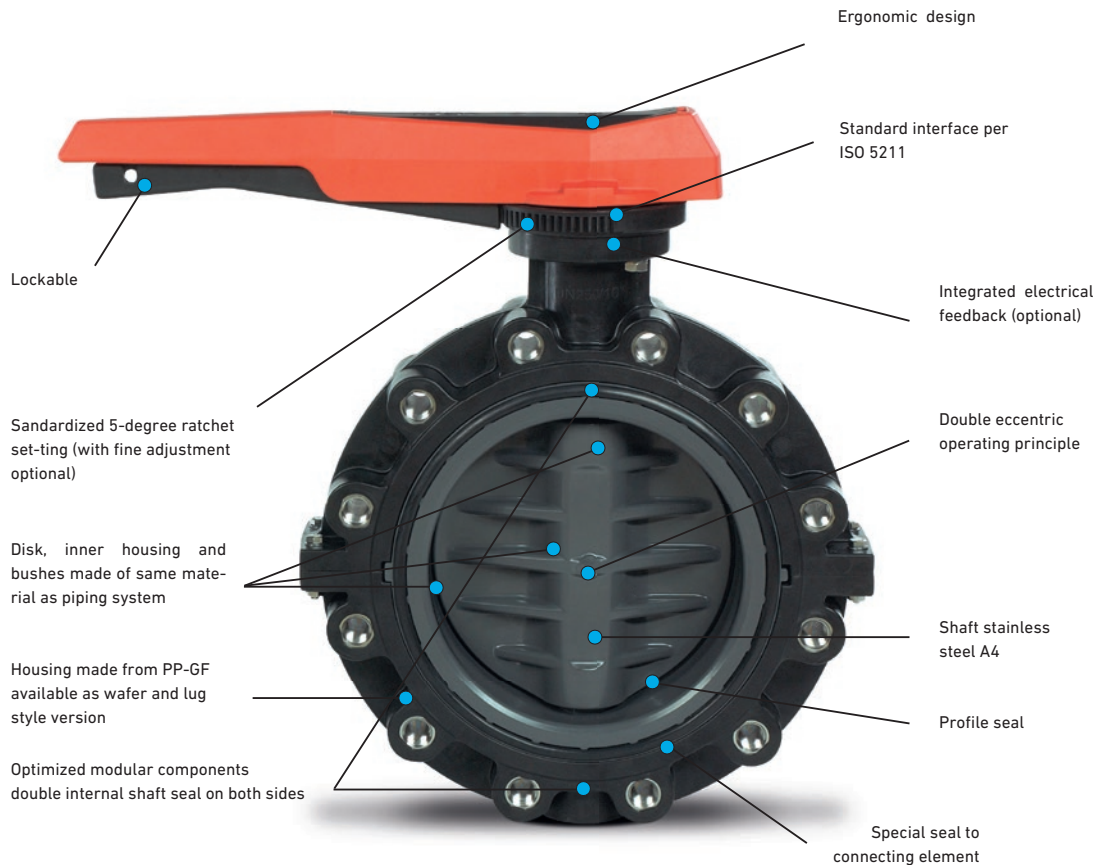
Standard ball valve d75/DN65 – d110/DN100 type 546

Ball valve with pneumatic actuator and manual override

Ball valve with electric actuator

# Butterfly valves

GF Piping Systems presents the double eccentric butterfly valves with lower torque, thus ensuring good frictional behaviour, less wear, longer service life and requires less maintenance. The manual valves can be offered with hand lever or reduction gear. The program also includes pneumatically or electrically actuated valves from DN50 to DN600. Our system's modular design principle allows you to exchange individual system components – fast, easily and at very little expense.



Standard lugtype  
Butterfly valve/end  
installation type 568



Standard wafer type  
Butterfly Valve type 567  
with handlever



Butterfly valve  
with fine adjustment



Butterfly valve  
with reduction gear



Butterfly valve with  
pneumatic actuator -  
single acting



Butterfly valve with  
pneumatic actuator -  
double acting; optional  
manual override



Butterfly valve with  
electric actuator;  
optional manual  
override and electric  
position indicator

# Your global system provider

## Actuators



## Process control valves

	Title	Type	PVC-U	PVC-C	ABS	PP-H	PVDF	PVDF HP	others	Dimension DN	Pressure Range PN	
	<b>Solenoid valve</b>	157	✓						✓	4-8	0-4	
		160/161	✓								10-20	0-3
		165	✓								15-50	0.5-6
		166					✓	✓			3-5	0-10
	<b>Pressure reducing valve</b>	582	✓	✓		✓	✓	✓		10-50	0.5-9 0.3-3	
		V82	✓			✓	✓	✓		65-100	DN65-80:6 DN100:4	
	<b>Pressure retaining valve</b>	586	✓	✓		✓	✓	✓		10-50	0.5-9 0.3-3	
		V86	✓			✓	✓			65-100	DN65-80:6 DN10:4	
	<b>Water jet suction pump</b>	P20	✓			✓	✓			10-80	10	
	<b>Variable area flow meter</b>	335/350		PVC-U transparent, Polyamid, Polysulfon, PVDF-HP						25-65	10	
	<b>Cone check valve</b>	561/562	✓	✓	✓	✓	✓			10-100	10-100	
	<b>Wafer check valve</b>	369	✓			✓	✓			32-300	10	
	<b>Angle seat check valve</b>	303/304	✓		✓				✓	10-80	10	
	<b>Strainer</b>	305	✓	✓		✓			✓	15-80	10	
	<b>Float valve</b>	V140	✓			✓				10-80	6	
	<b>Trottle valve</b>	V251	✓			✓	✓			10-50	10	
	<b>Pressure gauge</b>	Z500/ Z501	✓			✓	✓			25-32	10	
	<b>Ventilating/ ventilating and bleed valve</b>	591/595	✓	✓	✓	✓	✓			10-100	10-16	
	<b>Pilot valves</b>	PV94/ PV95							✓	G $\frac{1}{8}$ -G $\frac{1}{4}$ (1,2-v2)	10	



## + Measurement

- temperature
- flow
- pH
- level
- pressure
- conductivity
- ORP (Redox)





# Butterfly valves



## General

Title	Butterfly valve manual				Butterfly valve electric		Butterfly valve pneumatic	
	567	578	039	038	145/146/147	038-E/039-E	240/241/242	038-P/039-P
Type					567/578	038/039	567/578	038/039
Basic type					EA45/120/250	EA120/250	PA30-70	PA30-70
Actuator type								
Dimension DN	50 - 600	50 - 300	50 - 1200	50 - 300	50 - 600	50 - 1200	50 - 600	50 - 1200
Pressure range PN	6 - 10	10	10	10	6 - 10	10	6 - 10	10

## Materials

PVC-U	✓	✓			✓		✓	
PVC-C	✓	✓			✓		✓	
ABS	✓	✓			✓		✓	
PP-H	✓	✓			✓		✓	
PP-N								
PE								
PVDF	✓	✓			✓		✓	
PVDF-HP								
Ductile iron/alu-bronze			✓	✓		✓		✓
Disc ductile iron								
Rilsan coated			✓	✓		✓		✓
St. steel			✓	✓		✓		✓

## Type of connection

Sockets								
Spigots								
Flanges wafer Style	✓		✓		✓	✓	✓	✓
Flanges lug Style		✓		✓	✓	✓	✓	✓
Threaded sockets								

## Sealing materials

EPDM	✓	✓	✓	✓	✓	✓	✓	✓
PTFE/EPDM								
PTFE/FKM	✓	✓			✓		✓	
FKM	✓	✓	✓	✓	✓	✓	✓	✓
FFKM								
NBR								
Other			✓	✓	✓	✓	✓	✓

## Actuation

Hand operated	✓	✓	✓	✓				
Pneumatic actuated							✓	✓
Electric actuated					✓	✓		
with Gearbox	✓	✓	✓	✓				

## Accessories

- additional limit switches via integrated position indicator up to DN200
- fine adjustment hand lever
- gearbox also with limit switch box available
- DN350-600 in PP

- additional limit switches via limit switch boxes
- fine adjustment hand lever

### Valves

- manual override up to DN200
- additional limit switches via integrated position indicator up to DN200

### Actuators

- fail safe return unit
- limit switches AgNi, Au, NPN or PNP
- monitorings, e.g. motor current
- ...see ball valve electric actuated
- DN350-1200 valves and auma actuators
- profibus

- manual override up to DN200
- additional limit switches via integrated position indicator up to DN200
- limit switch boxes
- solenoid pilot valves
- modul for ASi
- DN350-600 actuators from
- DN350-600 in PP

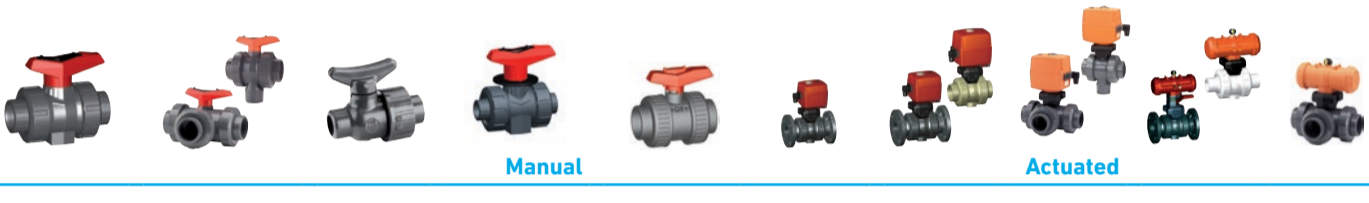
## + Benefits

- technological expertise
- all from one source
- top quality and performance
- system solutions
- know-how and experience
- local support

## + Food & beverage



# Ball valves



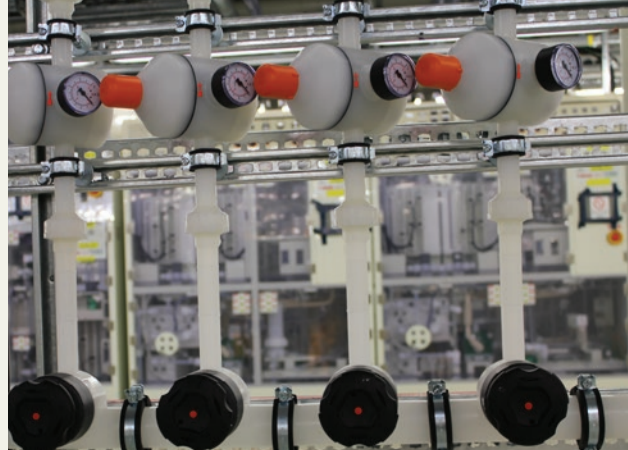
Manual					Actuated				
3-way ball valve	Lab valve	Metering valve			Electric ball valves			Pneumatic ball valves	
546	543	322	523	375	127	179-184	167-170	230-235	285-288
					546	546	543	546	543
					EA15	EA25/120	EA25	PA11-45	PA11/21
10-100	10-50	6-8	10-15	10-100	10-50	10-100	10-50	10-100	10-50
ABS/PP-H: 10	10	10	10	DN10-50: 16	10	10	10	10	10
PVC/PVDF: 16				DN65-100: 10					
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓				✓	✓	✓	✓	✓
✓	✓				✓	✓	✓	✓	✓
✓	✓		✓		✓	✓	✓	✓	✓
✓	✓				✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓				✓	✓	✓	✓	✓
✓	✓				✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
								✓	✓
					✓	✓	✓		

- |                                                                                                                                                                                                                                     |                                                                                                                                                                                               |                                                                      |                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                          |                                                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• handle extension</li> <li>• additional limit switches (MFM)</li> <li>• threaded inserts</li> <li>• mounting plate</li> <li>• Multifunctional handle</li> <li>• labelling system</li> </ul> | <ul style="list-style-type: none"> <li>• 90° and 180° end stop</li> <li>• threaded inserts</li> <li>• mounting plate</li> <li>• Multifunctional handle</li> <li>• labelling system</li> </ul> | <ul style="list-style-type: none"> <li>• labelling system</li> </ul> | <ul style="list-style-type: none"> <li>• fail safe return unit</li> <li>• limit switches AgNi, Au, NPN or PNP</li> <li>• limit switches AgNi</li> <li>• integrated manual override</li> <li>• modul for ASi</li> <li>• profibus</li> </ul> | <ul style="list-style-type: none"> <li>• fail safe return unit</li> <li>• limit switches AgNi, Au, NPN or PNP</li> <li>• monitorings, e.g mortor current</li> <li>• positioner</li> <li>• integrated manual override</li> <li>• modul for ASi</li> </ul> | <ul style="list-style-type: none"> <li>• manual override</li> <li>• limit switch boxes</li> <li>• solenoid pilot valves</li> <li>• modul for ASi</li> </ul> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|

## + Chemical process industry



## + Microelectronics



# Diaphragm valves



				Diastar diaphragm valves						General
514	515	517	519	604/605	Six	Ten	Ten +	Sixteen	025	Title
										Type
										Basic type
										Actuator type
15-50 up to 16	15-50 up to 16	15-150 up to 16	15-15/100-50 up to 16	15 (1/2") PN6	10-50 6	10-50 10	15-50 10	15-50 up to 16	65-150 6-10	Dimension DN
										Pressure range PN
										Materials
✓	✓	✓		✓	✓	✓	✓	✓	✓	PVC-U
✓	✓	✓			✓	✓	✓	✓	✓	PVC-C
✓	✓				✓	✓	✓	✓	✓	ABS
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	PP-H
	✓		✓			✓	✓	✓		PP-N
										PE
✓	✓	✓		✓		✓	✓	✓	✓	PVDF
✓	✓	✓	✓			✓	✓	✓	✓	PVDF-HP
										Ductile iron/alu-bronze
										Disc ductile iron
										Rilsan coated
										St. steel
										Type of connection
✓					✓	✓	✓	✓		Sockets
✓	✓		✓		✓	✓	✓	✓		Spigots
		✓				✓	✓	✓	✓	Flanges wafer style
										Flanges lug style
✓					✓	✓	✓	✓		Threaded sockets
										Sealing materials
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	EPDM
✓	✓	✓	✓	✓		✓	✓	✓	✓	PTFE/EPDM
✓	✓	✓	✓	✓		✓	✓	✓	✓	PTFE/FKM
✓	✓	✓	✓		✓	✓	✓	✓	✓	FKM
✓	✓	✓	✓	✓		✓	✓	✓	✓	FFKM
					✓	✓	✓	✓	✓	NBR
										Other
										Actuation
✓	✓	✓	✓							Hand operated
					✓	✓	✓	✓	✓	Pneumatic actuated
										Electric actuated
										With gearbox

Feedback electric

- manual override
- limit switches AgNi, Au positioner
- modul for ASI
- strokelimiter

## + Water treatment



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