



DELTA RG4

The hygienic regulating DELTA RG4 valve series is especially designed for continuous flow control within the brewery, dairy, food and pharmaceutical industries. The valves are suitable for flow and pressure control of liquids and gases.

Characteristics

The regulating valve DELTA RG4 is equipped with a diaphragm actuator and positioner. The operation of the diaphragm actuator is reversible, i.e. spring-raising or spring-lowering. The positioner may be supplied for electrical or pneumatic actuation and feedback signal switches can be fitted in the positioner.

The DELTA RG4 valve coordinates the valve stroke to setting signal, independently of the product pressure and throughput or any disturbances. Standard design with pneumatic 3-15 psi (0.2-1.0 bar) or electro pneumatic positioner (4-20 mA). The valve has a fully developed building block system, which means that the shaft and the seat can be changed to accommodate changed Cv/Kv values.

Options

- Noise reducing valve seat with flow diverter for critical pressure ratio
- Other signals (e.g. split range)
- "T" - and "LL" housings for divert/mixing applications
- PTFE membrane, stainless steel bellow or steam barrier for aseptic applications

- The positioner can also communicate with HART and Profibus protocols (others on request)
- The valve can be supplied with mating flanges or be welded directly into the pipeline

Features and Benefits

- Ball-shaped housing. Gentle product treatment and no sump or dome inside the housing
- Crevice-free sealing. No risk of contamination, if approved APV profile seals are used
- CIP and SIP cleanable. Fully hygienic
- Correctional ratio 50:1 with linear and equal percentage characteristics means precise regulating
- Positioner according to NAMUR or integrated positioner
- Valve design and testing according to DIN IEC 534
- Soft seat seal on the valve stem means no additional shut-off devices. Leakage class 6 according to DIN IEC 534



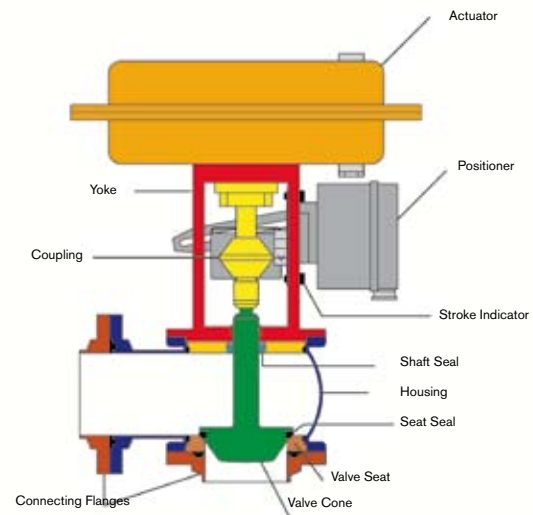
Technical Data

Possible combinations of flow values (Cv values)								
NW	25/1"	40/1.5"	50/2"	65/2.5"	80/3"	100/4"	125	150
Cv	0.29*	2.9	7.4	18.9	47.2	74.3	118	189
Value	0.47*	4.7	11.8	29.5	74.3	118	189	295
	0.74*	7.4	18.9	47.2	118	189	295	472
	1.18*	11.8	29.5	74.3				
	1.89*	18.9	47.2					
	2.9	29.5						
	4.7							
	7.4							
	11.8							

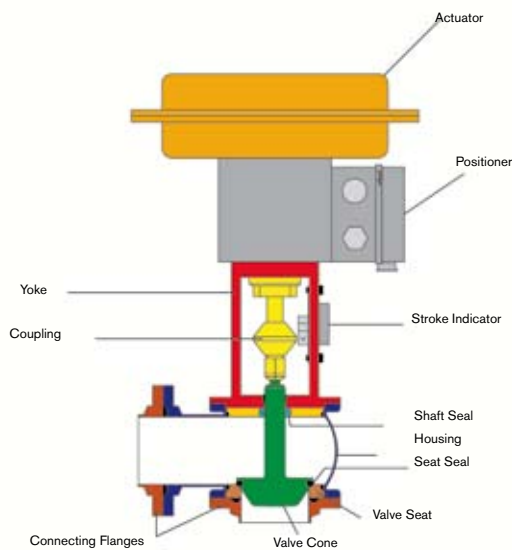
Possible combinations of flow values (Kv values)								
NW	25/1"	40/1.5"	50/2"	65/2.5"	80/3"	100/4"	125	150
Kv	0.25*	2.5	6.3	16	40	63	100	160
Value	0.4*	4	10	25	63	100	160	250
	0.63*	6.3	16	40	100	160	250	400
	1.0*	10	25	63				
	1.6*	16	40					
	2.5	25						
	4							
	6.3							
	10							

Sizes	DIN 25-150 and ISO 1"- 4"
Temperature	Up to 284°F/140 °C in continuous operation
Nominal pressure	PN 25 (363 psi) for DN 25-65 PN 16 (232 psi) for DN 80-100 PN 10 (145 psi) for DN 125-150
Product wetted parts	1.4404 (AISI 316L)
Seal materials	EPDM, FPM, HNBR, or Silicone All seals comply with the FDA requirements
Standard surface finish	Inside polished Ra < 32µin (0.8 µm)

Positioner According to NAMUR



Integrated Positioner



Your local contact:

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WHERE IDEAS MEET INDUSTRY

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For more information about our worldwide locations, approvals, certifications, and local representatives, please visit www.apv.com.

SPX Corporation reserves the right to incorporate our latest design and material changes without notice or obligation.

Design features, materials of construction and dimensional data, as described in this bulletin, are provided for your information only and should not be relied upon unless confirmed in writing.

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