

DELTA RG4

MODULATING VALVE

The hygienic APV RG4 modulating 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 RG4 modulating valve 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 electric or pneumatic actuation. Position feedback is possible for certain positioners.

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

Options

- Noise reducing valve seat with flow diverter for supercritical pressure ratio and gases
- Other control signals (e.g. split range) are possible.
- RG43-45 for mixing and divert valves
- PTFE diaphragm or steam barrier for aseptic applications
- On request the positioner is also available for HART protocol, Profibus PA and Foundation Field Bus.
- The valve is supplied with mating flanges or can be welded directly into the pipeline
- ATEX compliant models
- 3-A approved designs

Features and benefits

- Ball shaped housing. Gentle product treatment
- No sump or dome inside the housing
- Crevice-free sealing; no risk of contamination
- CIP and SIP cleanable. Fully hygienic
- Correcting ratio 50:1 with linear and equal percentage characteristics means precise regulation
- Positioner according to NAMUR or as integrated positioner. Design with actuator.
- Valve design and testing according to DIN IEC 534
- Soft seat seal on the valve stem means no additional shut-off devices required



Kvs - values in m³/h, valve stroke, Ø valve seat (S)

DN 25		DN 40		DN 50		DN 65		DN 80		DN 100		DN 125		DN 150			
STROKE 15 mm		STROKE 15 mm		STROKE 30 mm													
Kvs	SØ	Kvs	SØ	Kvs	SØ												
10.0	26	25	38	40	50	63	66	100	81	160	100			250	125	400	125
6.3		16															
4.0	13	10	26	25	38	40	50	63	66	100	81	160	100	160	100	250	125
2.5		6.3		16													
1.6*		4.0	13	10	26	25	38	40	50	63	66	100	81			160	100
1.0	8	2.5		6.3		16											
0.63*																	
0.4*																	
0.25*	4																

*metallic seal possible

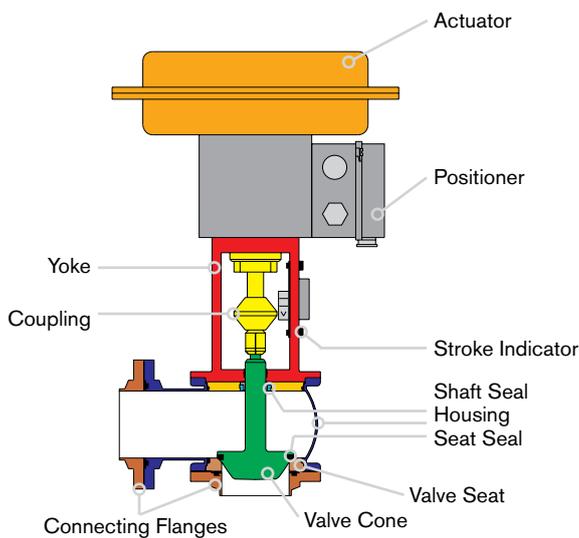
1"		1,5"		2"		2,5"		3"		4"	
STROKE 15 mm											
Kvs	SØ										
10.0	26	25	38	40	50	63	66	100	81	160	100
6.3		16									
4.0	13	10	26	25	38	40	50	63	66	100	81
2.5		6.3		16							
1.6*		4.0	13	10	26	25	38	40	50	63	66
1.0	8	2.5		6.3		16					
0.63*											
0.4*											
0.25*	4										

*metallic seal possible

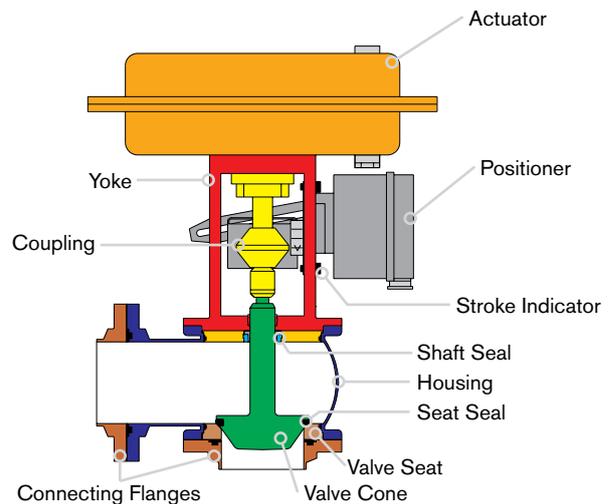
Technical data

Sizes	DIN 25-150 and 1" - 4"
Product wetted parts	316L, 1.4404 (DIN EN 100888)
Standard surface finish	Inside polished Ra 0.8 µm
Nominal pressure	PN 25 for DN 25-65 PN 16 for DN 80-100 PN 10 for DN 125-150
Seal materials	EPDM, HNBR, VMQ or FPM All seal materials are FDA compliant.
Max. temperature	EPDM, HNBR: 135 °C - short-term: 140 °C VMQ, FPM: 135 °C - not suited for hot water and steam Option: FPM steam-resistant

Integrated positioner



Positioner according to NAMUR



SPX Flow Technology, Zechenstrasse 49, D-59425 Unna, Germany

P: +49 (0) 23 03 / 108-0 F: +49 (0) 23 03 / 108-210

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

APV-8009-GB Version: 02/2015 Issued: 07/2015

COPYRIGHT © 2008, 2015 SPX Corporation