

# **GLOBE VALVE BODIES - STROKE 16,5 mm**

25...35

#### **APPLICATION AND USE**

2S/3S valve bodies are used in HVAC systems to control and regulate fluids. Valves are female threaded for connections. 3-way valves are used as mixing. They can also be used as diverting by reducing the max differential pressure value by 50%. Do not use the bypass (angle way) as control port. 2S/3S valve bodies are motorized by SE6, AQM, AQF series electric actuators and by DB-DA21 using LN-DA adaptor.

#### **WORKING**

Stem up: direct way A-AB closed (B-AB way open for 3-way

valve)

Stem down: direct way A-AB open (B-AB way closed for 3-way

valve)

ТҮРЕ		CONNECTION	KVs	MAX DIFF. PRESS. (*)		
2-WAY	3-WAY		m³/h	bar		
2S15	3S15	G 1/2	2.5	2.2 (11.0)		
2518	3518	G 3/4	4.0	2.2 (11.0)		
2520	3520	G 3/4	6.3	2.2 (11.0)		
2S25	3\$25	G1	10.0	2.2 (7.0)		
2532	3532	G 1 1/4	16.0	2.2 (4.4)		
2540	3540	G 1 1/2	25.0	2.2 (2.7)		
2550	3S50	G 2	40.0	2.2 (2.2)		

<sup>(\*)</sup> the values in the brackets are the max diff. pressure when valve is fully closed and actuator is still able to open or close the valve with security. the values outside the brackets are the suggested max pressure drop (valve fully open)

## **TECHNICAL FEATURES**

Nominal pressure: PN16 (ISO7268/EN1333)
Connections: female threaded GAS
Valve body: cast-iron G25
Plug: brass OT58

Stem: stainless steel AISI304

Stem packing nut: brass OT58

**Spring:** stainless steel AISI304

Stem packing: FKM O-ring Control stroke: 16.5 mm

**Control flow characteristic:** equal-percentage on way A→AB

linear on way B→AB

**Leakage:** direct way A→AB perfect sealing angle way B→AB max 0,2% KVs

Rangeability: 50:1 Fluid temperature: -10...+140°C

Fluid type: -10...+140°C

water with max 50% glycol

saturated steam max 2,5 Ata **Dimensions:** see relevant table

Weight: see relevant table see relevant table

#### **ACCESSORIES**

RP1/2"...RP2" fitting for valve piping connections LN-DA adaptor for DA-DA21 actuator assembly

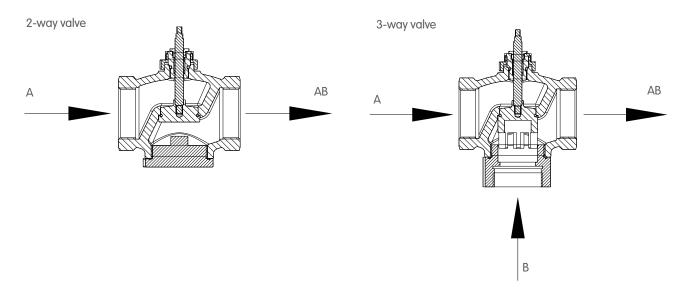


## INSTALLATION

## PIPING CONNECTIONS

Make the piping connections according to flow directions indicated on valve body as the following drawings.

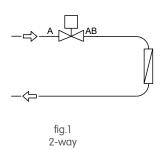
AB is always the output. Input is A for 2-way valve, A and B for 3-way valve.



#### **VALVE MOUNTING**

Before mounting the valve body be sure that the pipes are clean and free of soldering scraps. Pipes must be lined up squarely with the valve at each connection and free of vibrations. Install the valve/actuator in the vertical or horizontal position, never at upside down. Leave sufficient clearance to facilitate the dismantling of actuator from the valve body for maintenance purpose.

The valve must not be installed in an explosive atmosphere or in places in which temperature and humidity are outside ranges indicated on the data sheet. Valve must not be subjected to steam or water jets or dripping liquid. 3-way valve must be used as mixing valve (2 inlets 1 output). If the valve is used in diverting way (1 inlet 2 outputs), the max differential pressure indicated in the data sheet must be reduced by 50%.



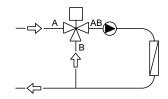


fig.2 3-way mixing used in mixing application toward user

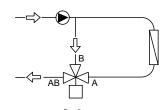
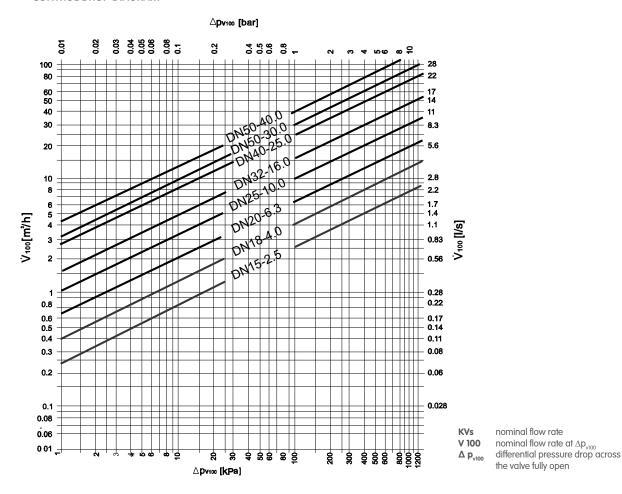
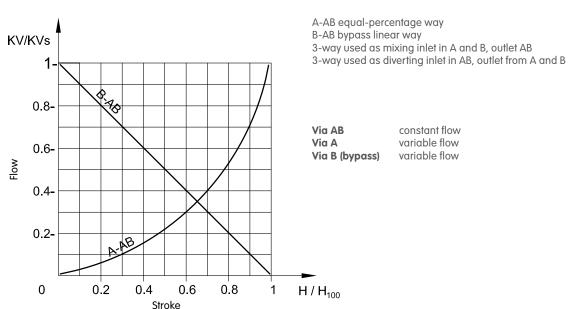


fig.3
3-way mixing used in diverting application toward user

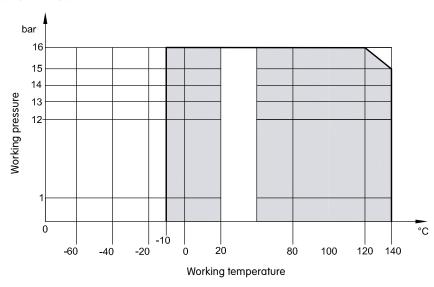
#### **CONTROL DROP DIAGRAM**



### **CONTROL FLOW CHARACTERISTICS**



# PRESSURE / TEMPERATURE DIAGRAM



## **OVERALL DIMENSIONS (mm)**

G	А	В	С	C1	D	H min.	Weight (g)	
			35	25			25	35
G 1/2	66	73.5	40.5	32.5	33.0	300	650	800
G 3/4	90	79.0	64.0	42.0	45.0	305	1100	1250
G1	96	86.5	70.0	40.5	48.0	310	1450	1650
G 1 1/4	109	89.5	76.5	47.5	54.5	315	1950	2200
G 1 1/2	122	94.0	80.0	55.0	61.0	320	2750	2950
G 2	142	101.5	88.5	62.5	71.0	325	3950	4250

