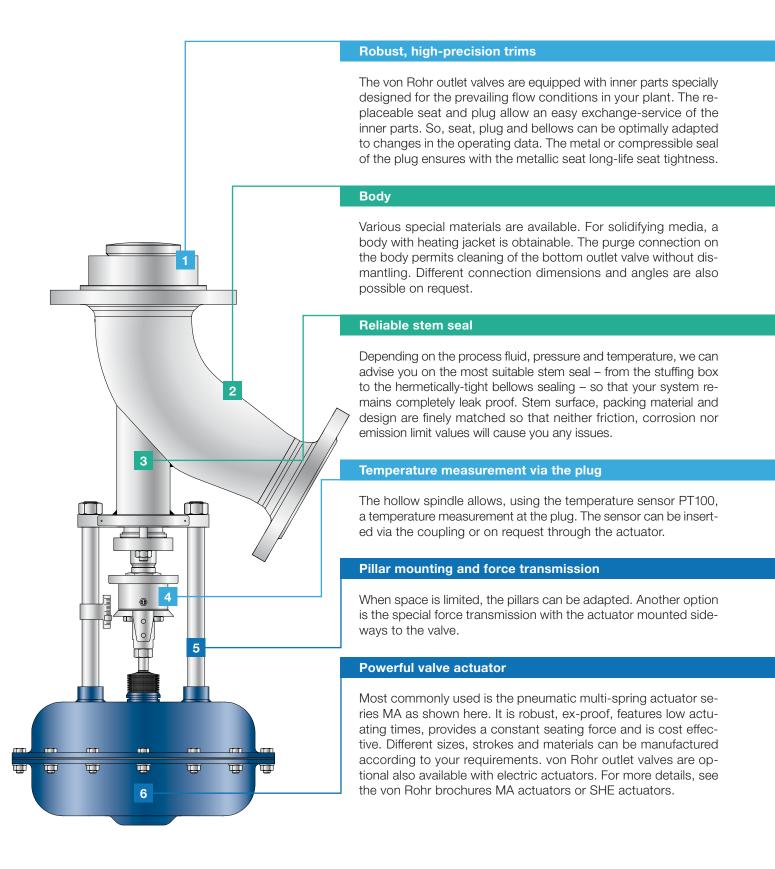


# Series 2



## **Every component precisely matched**



### Valve design

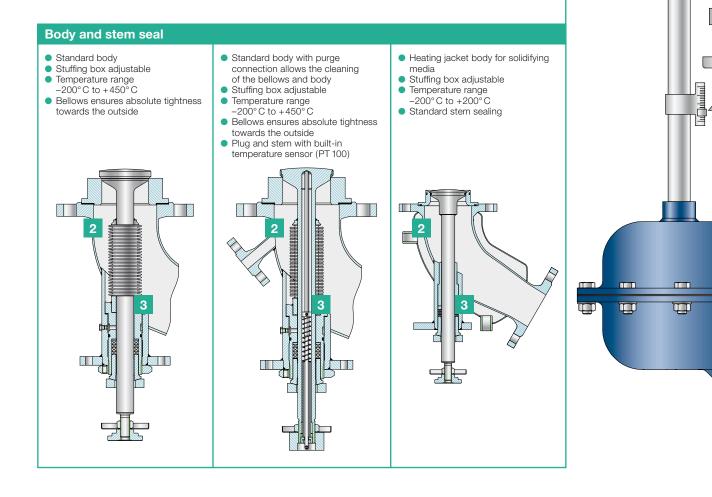
In order to fulfill its function properly within an installation, the valve has to be designed to the particular operating conditions such as flow rate, operating pressure difference, tightness and noise requirements. This is realised thanks to the numerous combinations that the modular design allows.

#### Valve stem seals

The type of valve stem seal depends on the fluid as well as the operating conditions such as temperature and pressure. It also, however, has decisive influence on the operational safety, the maintenance and, last not least, on the availability of the valve.

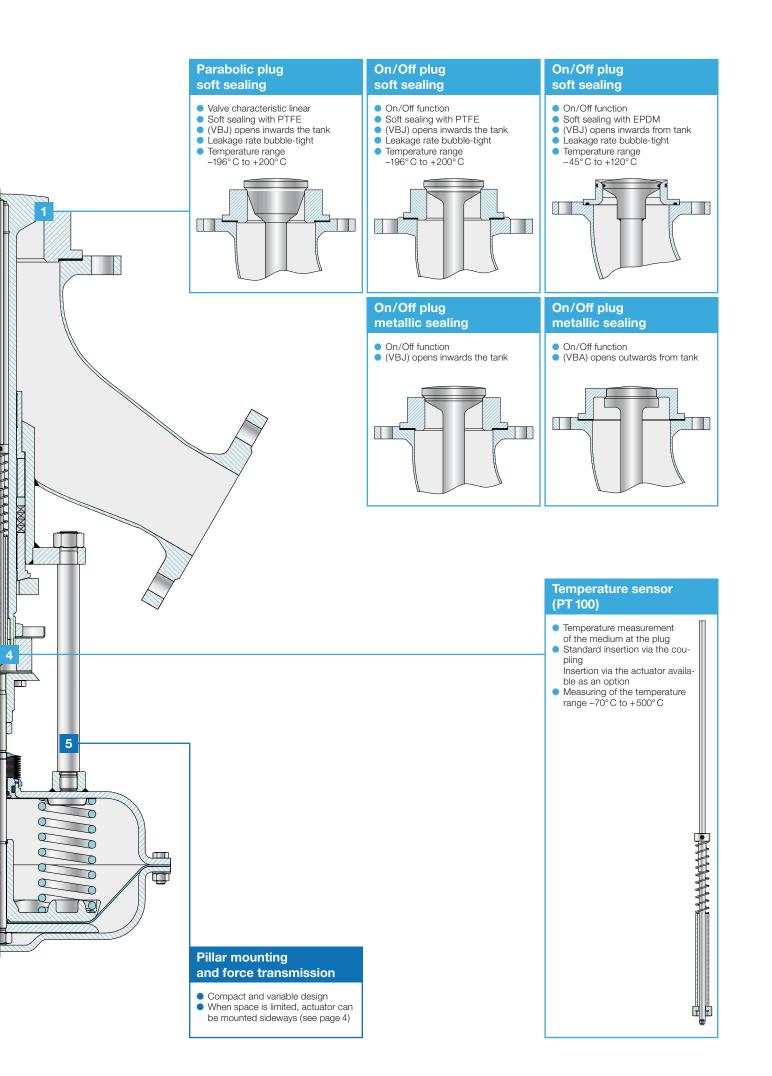
#### **Valve trims**

A number of different valve trims are available for series 2 in order to fulfill the specific valve requirements in terms of kvs-value, valve characteristic, Z-value, permissible leakage rate as well as allowed noise level.



2

3



### **Series 2**

### Series 2 with special force transmission



Features	Advantages		
Body designed to meet flow path criteria	<ul><li>Less noise</li><li>Less wear</li><li>Less maintenance</li></ul>		
Modular Design	<ul> <li>Many different combinations of valves and actuators possible</li> <li>Plug/seat combinations <ul> <li>Metallic sealing</li> <li>Soft sealing</li> <li>Stellited</li> <li>Grinded-in</li> </ul> </li> <li>Body combinations <ul> <li>Standard</li> <li>Purge connection</li> <li>Heating jacket</li> </ul> </li> <li>Stem/seal combinations <ul> <li>Adjustable stuffing box</li> <li>Bellows</li> </ul> </li> </ul>		
Fire-safe execution	<ul> <li>On request</li> </ul>		
Highly accurate stem guiding	<ul> <li>Precise plug guiding</li> <li>Guided stuffing box</li> <li>Minimum wear of packing</li> </ul>		
Compact and robust design	<ul> <li>Saves installation space</li> </ul>		
Easy interchangeability of components	<ul> <li>Low operating expenses</li> </ul>		
Stainless steel internal parts	No corrosion		
Optionally available with manual, pneumatic or electric actuator	• Wide range of choice		
Pillars comply with NAMUR	• Simple mounting of positioners, limit switches etc.		
Temperature measurement	<ul> <li>At the plug possible</li> </ul>		
Integrated pipeless mounting of position regulators possible	<ul><li>High availability</li><li>Retrofitting possible</li></ul>		
Interchangeable trim	<ul> <li>Changes in kv-value possible</li> </ul>		



## **Series 2**

General data		
Series	2	
Nominal bore DN/NPS	50 to 150 / 2" to 6"	
Nominal pressure PN/ANSI	pressure PN/ANSI 16 to 40 / class 150 to 300	
Characteristics	linear or On/Off	
Rangeability	25:1	
Plug guide	stem guided	
Leakage rate	metal sealing: IEC 60534-4 leakage rate class IV (0.01% of kvs-value); soft sealing: IEC 60534-4 leakage rate class VI, others on request	
Flanges	according to DIN EN 1092-1, form A to H, ANSI	
Bellows seal bonnet	seamless, double walled, made of 1.4571 or equivalent optional Hastelloy and other materials	
Purge connection	inside thread and flange connections on request possible	
Heating jacket	inside thread and flange connections on request possible	
Temperature measuring	measuring optionally with temperature sensor PT100 available	
Opening direction	(VBJ) opens inwards- or (VBA) opens outwards from tank	

Materials								
Body material	EN	for temperatures	ASTM	for temperatures				
	1.4435 X2CrNiMo18-14-3	- 60 to 500°C	-	-				
	1.4404 X2CrNiMo17-12-2	–196 to 500°C	-	-				
Hastelloy and other materials available on request								
Seat material	according to body material							

	Trim materials							
Var.	Parabolic plug	On/Off plug	Seat	Sealing	Max. permissible medium temperatur °C			
1	1.4435 / 1.4404	-	acc. to plug	metallic	acc. to stem sealing			
2	1.4435 / 1.4404	-	acc. to plug	soft (PTFE)	–196 to 200° C			
3	-	1.4435 / 1.4404	acc. to plug	metallic	acc. to stem sealing			
4	-	1.4435 / 1.4404	acc. to plug	soft (PTFE)	-196 to 200° C			
5	-	1.4435 / 1.4404	acc. to plug	soft (EPDM)	- 45 to 120°C			
	Hastelloy and other materials possible on request							

#### Swiss precision for fluids and flow control