

Series 500 – Valve monitoring

Val Controls® A/S

Intelligent valve control based on the latest know-how concerning digital technology for advanced positioners and switchboxes suited for pneumatic and hydraulic actuators. Our key task is to assist valve and actuator manufactures in finding the most optimal solution for control and/or monitoring of their product. We discover the best solutions for hazardous areas and harsh environments combined with cost reduction potentials on power.

Product development strategy

- Energy saving
- Process saving
- Resource saving
- User friendly

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Series 500 – Valve monitoring

Valve monitoring ready to suit the most extreme environments and projects

Val Controls Series 500 - Valve monitoring is a line of valve and actuator monitoring devices made to suit the most extreme environments. They are designed to be compact and easy to install.

- **AISI 316 stainless steel enclosure**
- **Unique mechanical adjustment of switches**
- **User-friendly**
- **Flexible and configurable**
- **Intrinsically safe version**
- **ATEX approved**

The Val Controls Series 500 comes in five different models. Each model can be configured to suit different customers' needs.

- **LS:** Limit switchbox fitted with 1-4 limit switches
- **PT:** Position transmitter with 4-20mA, HART, Profibus or Foundation Fieldbus
- **RS:** Remote sensingbox using a potentiometer for feedback of actuator position
- **LP:** A combined limit switchbox and position transmitter in a compact enclosure
- **LR:** A combined limit switchbox and remote sensingbox in a compact enclosure.

The Val Controls Series 500 is a compact unit, which makes further units unnecessary.



Series 500 – Valve monitoring

Model selector for limit switchbox

The selector can be used for selecting the correct part number needed.

Product name	Type	Limit switch	No. of limit switch	Adapter	Mounting	Accesorries
S5	- LS -	AAA	B	C	D	- E#

AAA	Limit switch	
101	P&F NCN4-12GM35-N0	
102	P&F NJ2-V3-N	
103	P&F NJ4-12GM-N	
104	P&F NJ2-11-NG	
105	P&F NJ5-18GM-N	
106	P&F NJ2-12GK-SN	
107	P&F NJ5-18GK-SN	
108	P&F NJ3-18GK-S1N	
901	Burges SPDT V3RTU	
B	No. of limit switch	
1	1 Limit switch	
2	2 Limit switch	
3	3 Limit switch	
4	4 Limit switch	
C	Adapter	
V	VDI/VDE 3845	Rotary applications
A	Feedback lever 1	Actuator travel 1/2"-6"
B	Feedback lever 2	Actuator travel 5"-11"
C	Feedback lever 3	Actuator travel 10"-16"
D	Feedback lever 4	Actuator travel 16"-20"
X	Custom	
D	Mounting	
5	F05, EN ISO 5211	
7	F07, EN ISO 5211	
C	Custom	
E1	Visual indicator	
V1	90 degree, red (closed) / green (open)	
V2	180 degree	
E2	Special versions	
##	Description on special customer demand	

Series 500 – Valve monitoring

Model selector for position transmitter

The selector can be used for selecting the correct part number needed.

Product name	Type	Position transmitter	Adapter	Mounting	Accessories
S5	- PT -	A	B	C	D#

A	Position transmitter	
1	4-20mA	PR Electronics 5333D
2	4-20mA + HART	PR Electronics 5335D
3	Profibus PA/Foundation Fieldbus H1	PR Electronics 5350B
4	4-20mA	Status SEM110X
B	Adapter	
V	VDI/VDE 3845	Rotary applications
A	Feedback lever 1	Actuator travel 1/2"-6"
B	Feedback lever 2	Actuator travel 5"-11"
C	Feedback lever 3	Actuator travel 10"-16"
D	Feedback lever 4	Actuator travel 16"-20"
C	Mounting	
5	F05, EN ISO 5211	
7	F07, EN ISO 5211	
D1	Visual indicator	
V1	90 degree, red (closed) / green (open)	
V2	180 degree	
D2	Special versions	
##	Description on special customer demand	

Series 500 – Valve monitoring

Model selector for remote sensingbox

The selector can be used for selecting the correct part number needed.

Product name	Type	Potentiometer	Adapter	Mounting	Accessories
S5	- RS -	AAA	B	C	- D#

AAA	Potentiometer	
005	5Kohm	
010	10Kohm	
020	20Kohm	
100	100Kohm	
B	Adapter	
V	VDI/VDE 3845	Rotary applications
A	Feedback lever 1	Actuator travel 1/2"-6"
B	Feedback lever 2	Actuator travel 5"-11"
C	Feedback lever 3	Actuator travel 10"-16"
D	Feedback lever 4	Actuator travel 16"-20"
C	Mounting	
5	F05, EN ISO 5211	
7	F07, EN ISO 5211	
D1	Visual indicator	
V1	90 degree, red (closed) / green (open)	
V2	180 degree	
D2	Special versions	
##	Description on special customer demand	

Series 500 – Valve monitoring

Model selector for limit switchbox with position transmitter

The selector can be used for selecting the correct part number needed.

Product name	Type	Limit switch	No. of limit switch	Position transmitter	Adapter	Mounting	Accessories
S5	- LP -	AAA	B	C	D	E	- F#

AAA	Limit switch	
101	P&F NCN4-12GM35-N0	
102	P&F NJ2-V3-N	
103	P&F NJ4-12GM-N	
901	Burgess SPDT V3RTU	
B	No. of limit switch	
1	1 Limit switch	
2	2 Limit switch	
3	3 Limit switch	
4	4 Limit switch	
C	Position transmitter	
1	4-20mA	PR Electronics 5333D
2	4-20mA + HART	PR Electronics 5335D
3	Profibus PA/Foundation Fieldbus H1	PR Electronics 5350B
4	4-20mA	Status SEM110X
D	Adapter	
V	VDI/VDE 3845	Rotary applications
A	Feedback lever 1	Actuator travel 1/2"-6"
B	Feedback lever 2	Actuator travel 5"-11"
C	Feedback lever 3	Actuator travel 10"-16"
D	Feedback lever 4	Actuator travel 16"-20"
E	Mounting	
5	F05, EN ISO 5211	
7	F07, EN ISO 5211	
F1	Visual indicator	
V1	90 degree, red (closed) / green (open)	
V2	180 degree	
F2	Special versions	
##	Description on special customer demand	

Series 500 – Valve monitoring

Model selector for limit switchbox with remote sensing

The selector can be used for selecting the correct part number needed.

Product name	Type	Limit switch	No. of limit switch	Potentiometer	Adapter	Mounting	Accessories
S5	- LR -	AAA	B	C	D	E	- F#

AAA	Limit switch	
101	P&F NCN4-12GM35-N0	
102	P&F NJ2-V3-N	
103	P&F NJ4-12GM-N	
901	Burges SPDT V3RTU	
B	No. of limit switch	
1	1 Limit switch	
2	2 Limit switch	
3	3 Limit switch	
4	4 Limit switch	
C	Potentiometer	
005	5Kohm	
010	10Kohm	
020	20Kohm	
100	100Kohm	
D	Adapter	
V	VDI/VDE 3845	Rotary applications
A	Feedback lever 1	Actuator travel 1/2"-6"
B	Feedback lever 2	Actuator travel 5"-11"
C	Feedback lever 3	Actuator travel 10"-16"
D	Feedback lever 4	Actuator travel 16"-20"
E	Mounting	
5	F05, EN ISO 5211	
7	F07, EN ISO 5211	
F1	Visual indicator	
V1	90 degree, red (closed) / green (open)	
V2	180 degree	
F2	Special versions	
##	Description on special customer demand	