Bälz-electrodyn 2- and 3-way control valves for hot oil

**Hot oil bellows valve series with Kvso = 0,004%.
Assuredly the best valve serie for hot oil systems.
Baelz control valves provide precision control due to very low hysteresis and guarantee best reproductivity, available upto ND 300 NP 16, 25 or 40.**

1. General information

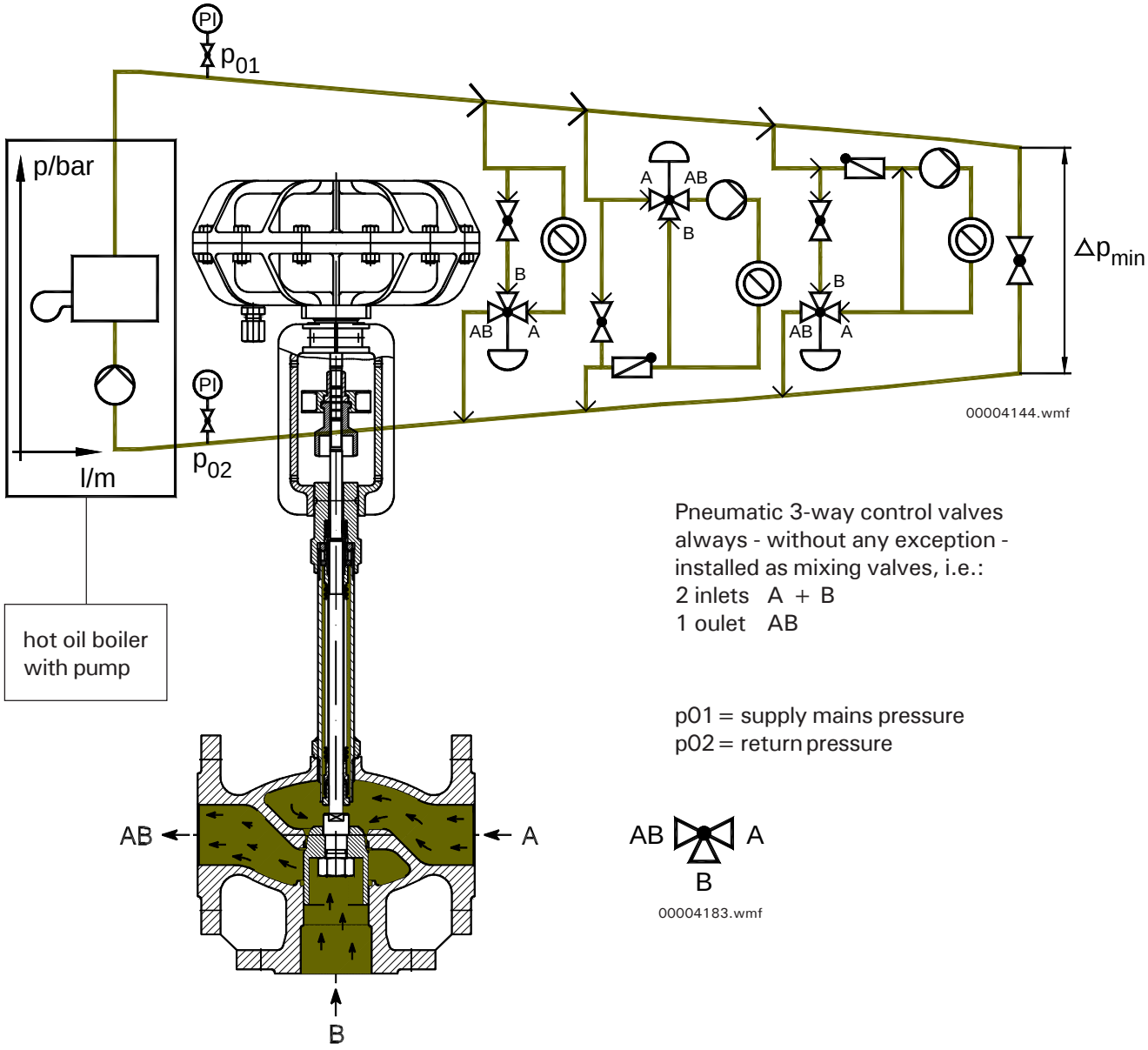


Fig. 1 Application examples with 3-way mixing control valve baelz 342-BK-SS: 3rd way B not tight; baelz 347-BK-SS: 3rd way B tight

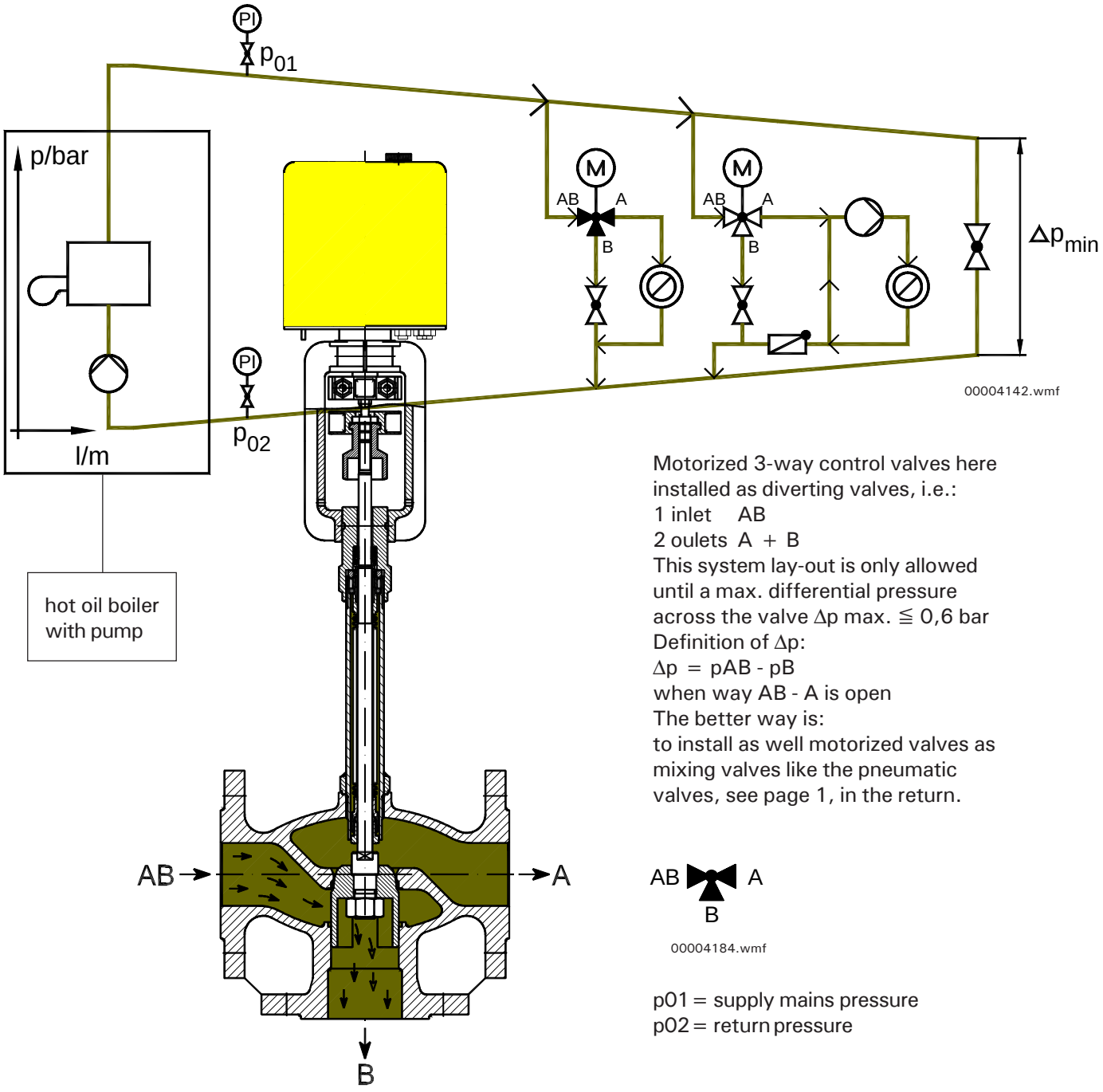
Summary:

1. General information page 1-7
2. 2-way valves page 8
3. 3-way valves page 9-10
4. Electric and pneumatic actuators page 11-13
5. Max. allowable diff. pressures page 14-17
6. Dimensions page 18-19
7. Baelz delivery program page 20

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W. Bälz & Sohn GmbH & Co. Koepffstraße 5 D-74076 Heilbronn Telefon (07131) 15 00-0 Telefax (07131) 15 00-21

Bälz-electrodyn 2- and 3-way control valves for hot oil



Motorized 3-way control valves here installed as diverting valves, i.e.:
1 inlet AB
2 oulets A + B
This system lay-out is only allowed until a max. differential pressure across the valve Δp max. ≦ 0,6 bar
Definition of Δp:
Δp = pAB - pB
when way AB - A is open
The better way is:
to install as well motorized valves as mixing valves like the pneumatic valves, see page 1, in the return.

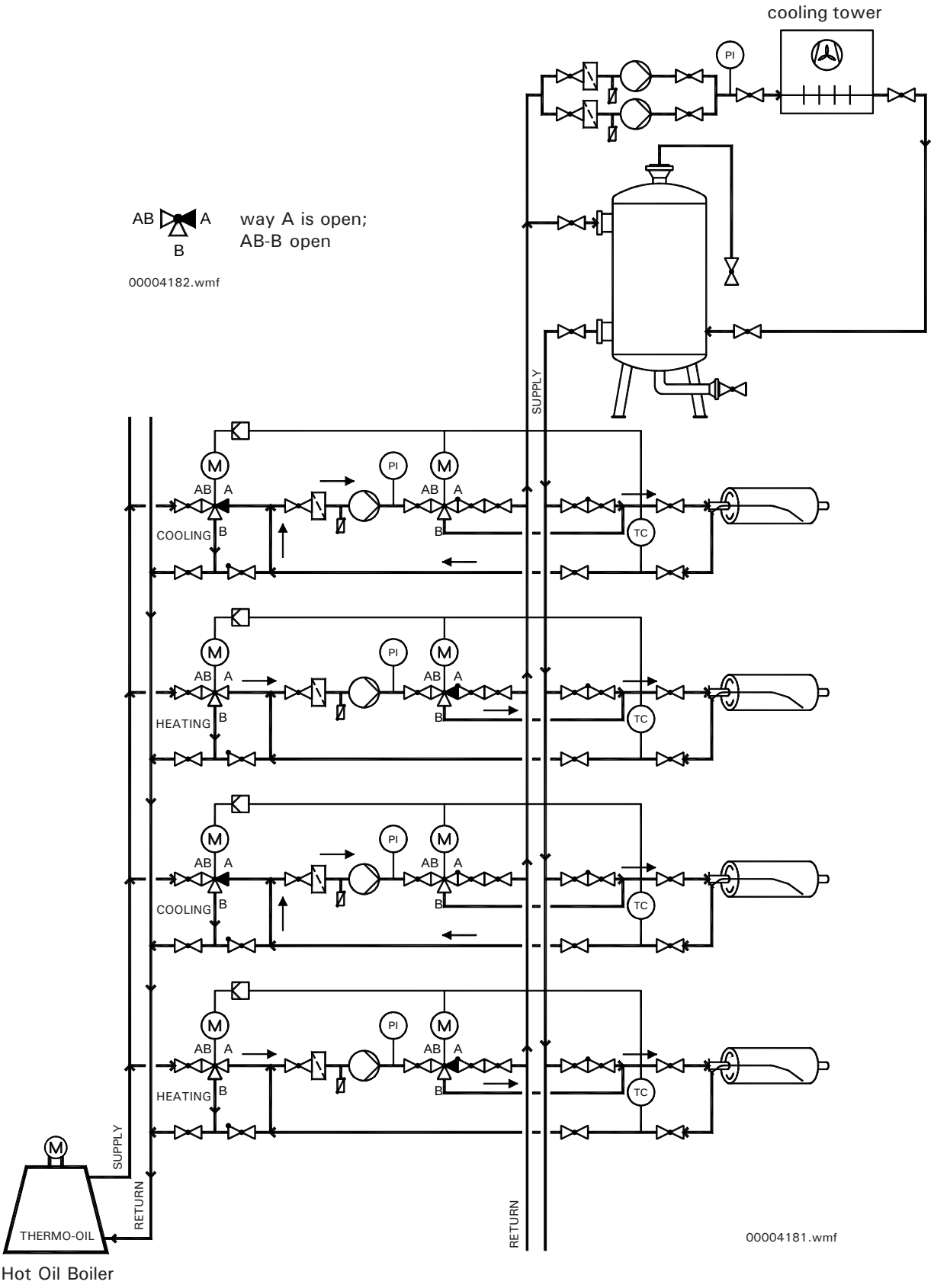
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p01 = supply mains pressure
p02 = return pressure

Fig. 2 Application examples with 3-way diverting control valve baelz 342-BK-SS: 3rd way B not tight; baelz 347-BK-SS: 3rd way B tight

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Bälz-electrodyn 2- and 3-way control valves for hot oil



Hot Oil Boiler

Fig. 3 Application example of a installation to heat and cool calanders; with only two 3-way valves such problems can be solved efficiently

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Bälz-electrodyn 2- and 3-way control valves for hot oil

Lifetime of bellows for baelz valves:

340-BK-SS, 340-BBK-SS
342-BK-SS
347-BK-SS, 347-BBK-SS

stroke	operating pressure bar	operating temperature °C	full ups and downs
12	16	120	70 000
	11	240	80 000
	8	350	80 000
	6	300	100 000
	3	300	120 000
22	16	120	100 000
	11	240	120 000
	8	350	120 000
	6	300	150 000
	3	300	180 000
44	16	120	210 000
	11	240	230 000
	8	350	230 000
66	16	120	220 000
	11	240	240 000
	8	350	240 000

Table 1: PN16

stroke	operating pressure bar	operating temperature °C	full ups and downs
12	25	120	80 000
	16	300	80 000
	13	350	80 000
22	25	120	120 000
	16	300	120 000
	13	350	120 000
44	25	120	120 000
	16	300	170 000
	13	350	180 000
66	25	120	120 000
	16	300	170 000
	13	350	190 000

Table 2: PN25/40

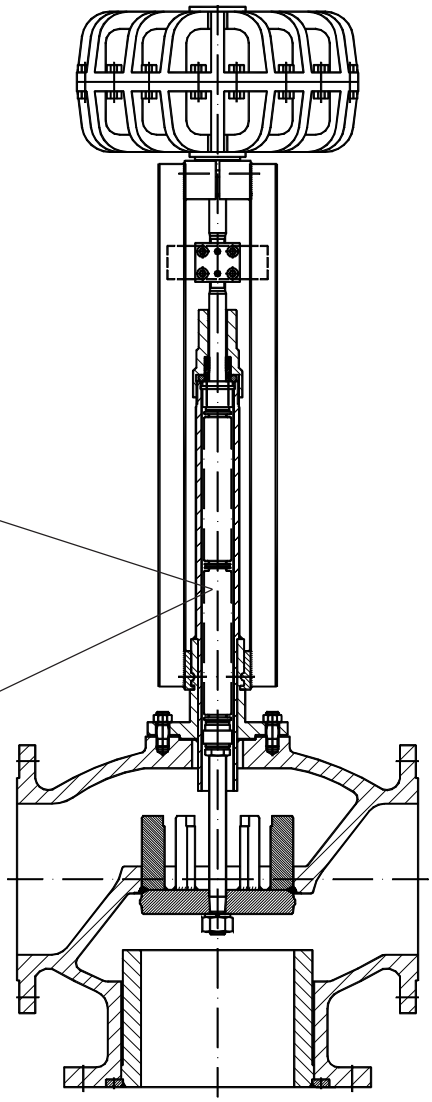


Fig. 4 3-way control valve
baelz 347-BBK-SS with bellow

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Bälz-electrodyn 2- and 3-way control valves for hot oil

Three way valve in liquid systems

3-way valves can be installed as mixing- or diverting valves.

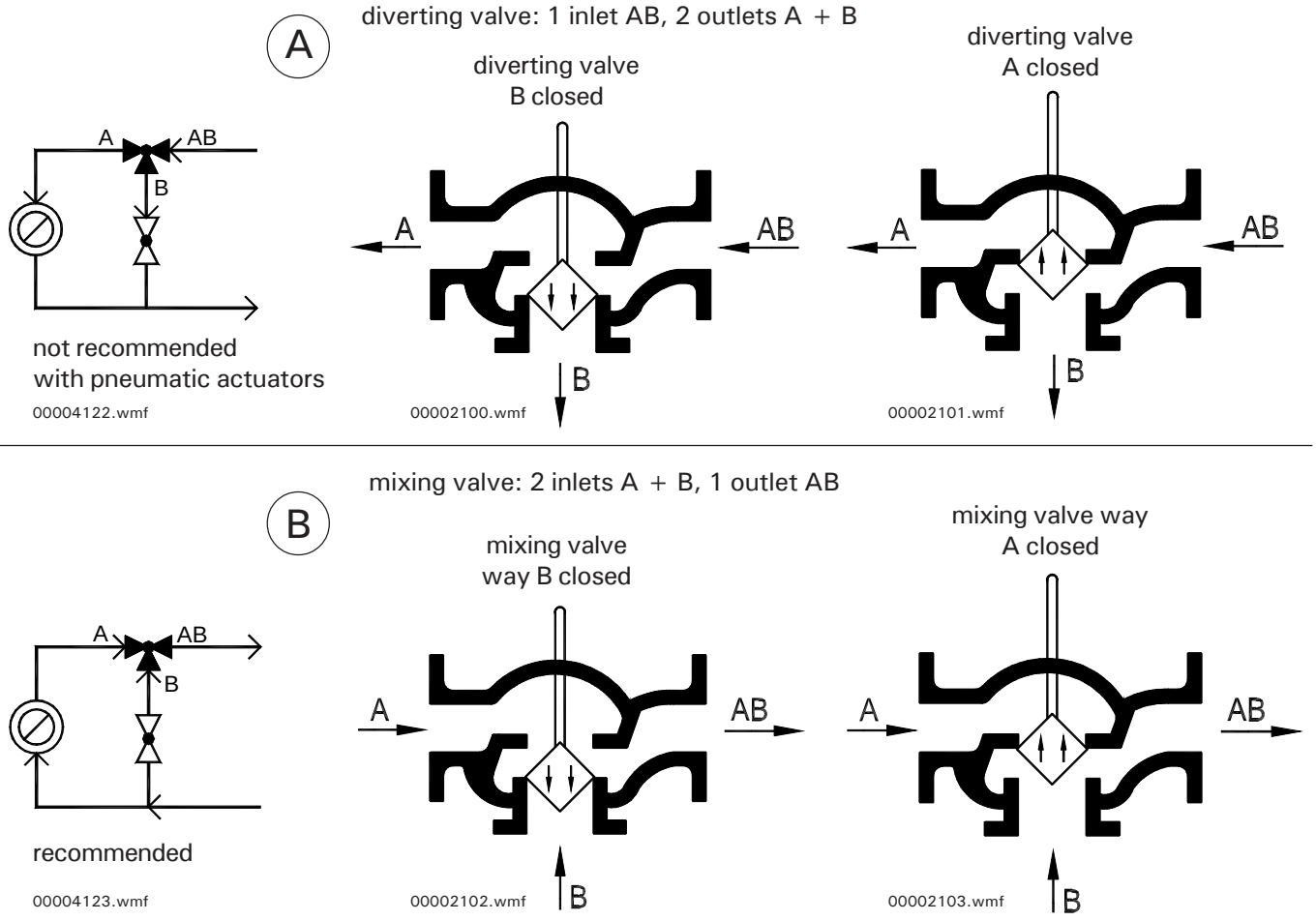


Fig. 9
diverting (A) or mixing valves (B)

A mixing valve is defined as a valve with 2 inlets (A and B) and 1 outlet (AB).
A diverting valve is defined as a valve with 1 inlet (AB) and 2 outlets (A and B).

3-way valves can be installed as mixing or diverting valves. In the upper figures the three - way valve is shown as a diverting valve. In both end - positions (plug in upper position or plug in lower position) the plug will shortly before it has reached the seat be pressed into seat by the flow. With large pressure drops this may lead in these positions to a hammering of the plug. That is why a diverting valve of such design can only be installed with low differential pressures and only as a motorized valve, not as pneumatic valves. We limit max. diff. pressure to 0,6 bar for all diverting valves.

In comparison to that, the lower figures show the 3-way valve as mixing valves. In this case shortly before the plug reaches the end positions it is pushed away from the seat. These conditions are dynamically more favourable and therefore, it is recommended to install the three - way valve always as mixing valve, a mixing valve can easily handle higher differential pressures without hammering.

Baelz limits for diverting valves the max. admissible differential pressure to 0,6 bar; pneumatic operated valves must never be installed as diverting valves!

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Bälz-electrodyn 2- and 3-way control valves for hot oil

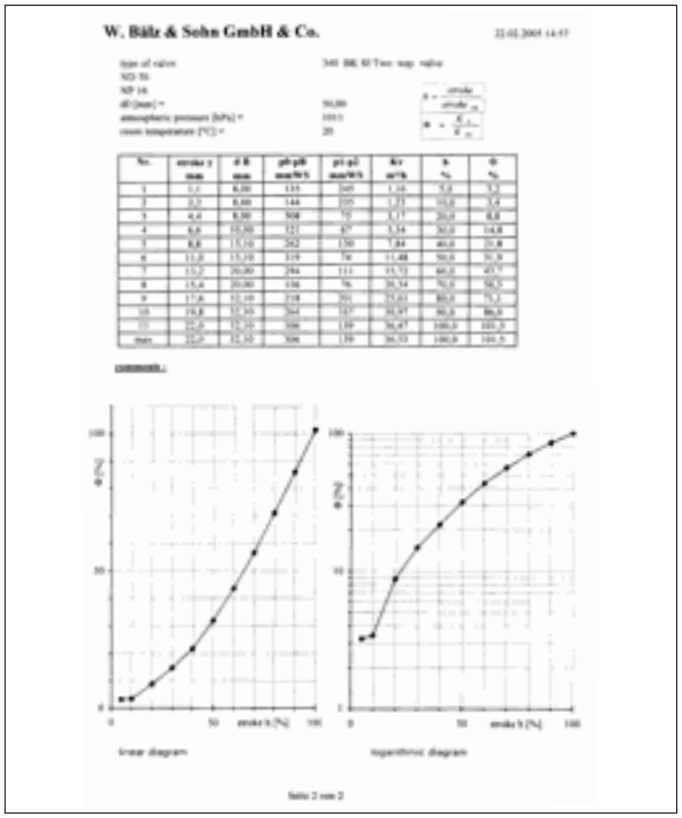
Test and certificate checks by Baelz



W. Bälz & Sohn GmbH & Co.

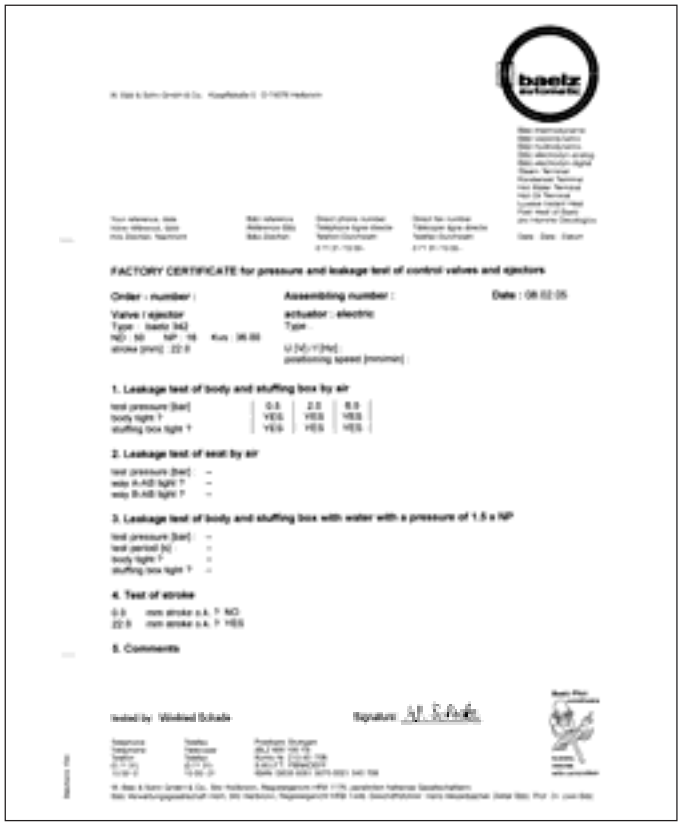
Measurement of Kvs - value

acc. to standard DIN IEC 534, Part 2 - 3



W. Bälz & Sohn GmbH & Co.

Print-out and valve characteristic of our Kvs-test bank



FACTORY CERTIFICATE for pressure and leakage test of control valves and ejectors

Pressure and leakage test certificate



ZERTIFIKAT Certificate

Interne Fertigungskontrolle mit Überwachung der Abnahme (Modul A1) nach Richtlinie 97/23/EG

CE 0036

Baelz's certificate for Module A1 acc. to the European Pressure Directive

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Bälz-electrodyn 2- and 3-way control valves for hot oil

2. Two-way valve serie baelz 340-BK-SS and baelz 340-BBK-SS

Checklist:
ND: 15 - 300
NP: 16 / 25 / 40
standard body:
NP 16 + NP 25:
GJS-400-18-LT (GGG 40.3)
NP 40: GP240GH (GS-C25)
temperatures:
min.: -10°C
max.: +350°C
spindle Ø: 10 mm
S 21: ND 15 - 125
spindle Ø: 22 mm
S 31 / 41: ND 150 - 300

ND	15			20	25	32
Kvs	2,0	3,0	5,6	6,3	9	16
ND	40	50	65	80	100	125
Kvs	25	36	63	105	130	200
ND	150	200	250	300		
Kvs	360	580	960	1340		

*1 *2

Short presentation of all electric and pneumatic actuators see page 11

Text for quotations + orders:

2-way control valve with bellows
baelz 340-BK-SS NP 16
without actuator*1*2
Kvso = 0.004%
body material : GJS-400-18-LT – JS 1025 (GGG 40.3)
internal parts : stainless steel
stuffing box : with bellows and safety gland
medium : hot oil

temperature/pressure max.					
ND	15-125	150	200	250	300
°C/bar	350/8	350/8	350/6	350/3	350/2
°C/bar	120/16	120/10,6	120/6,7	120/3,8	120/2,2

stroke ND 15 – 25 :12 mm
ND 32 – 125 :22 mm
ND 150 :44 mm
ND 200 – 300 :66 mm
flow :.....
pressure drop
Δp_{100} : ..... bar
max. closing pressure
Δp_0 : ..... bar

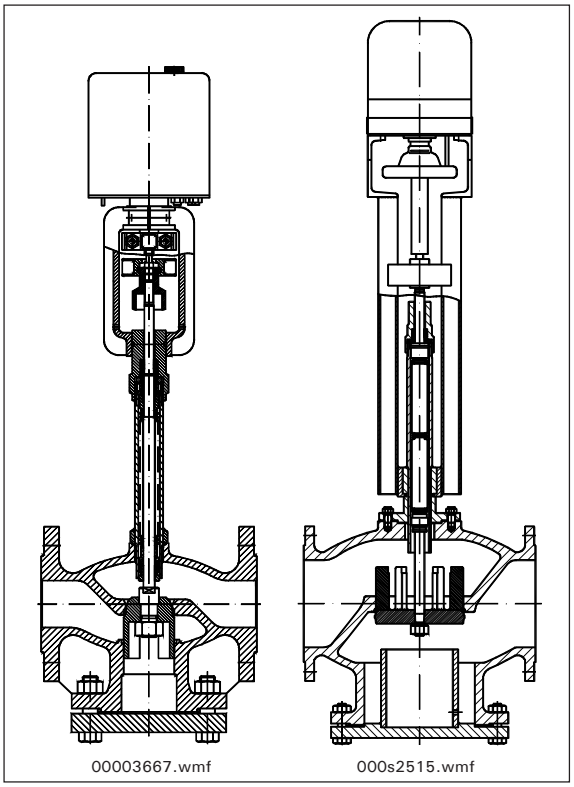


Fig. 10
baelz 340-BK-SS with 373-E07
baelz 340-BBK-SS with 373-E60



340-BK-SS-DN65-P21-IP86.JPG

Fig. 11
baelz 340-BK-SS with 373-P21 and IP86



340-BBK-SS-DN150-PN16-P31-IP86.JPG

Fig. 12
baelz 340-BBK-SS with 373-P31 and IP86

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Bälz-electrodyn 2- and 3-way control valves for hot oil

3. Three way valve series baelz 342-BK-SS, 347-BK-SS, 347-BBK-SS

Assuredly the best valve serie for hot oil systems

Checklist:
ND: 15 - 300
NP: 16 / 25 / 40
standard body:
342 / 347:
NP 16 + NP 25:
GJS-400-18-LT (GGG 40.3)
NP 40:
GP240GH (GS-C25)
temperatures:
min.: -10°C
max.: +350°C
342: 3-way valve,
3rd-way B not tight
347: 3-way, 3rd-way B tight

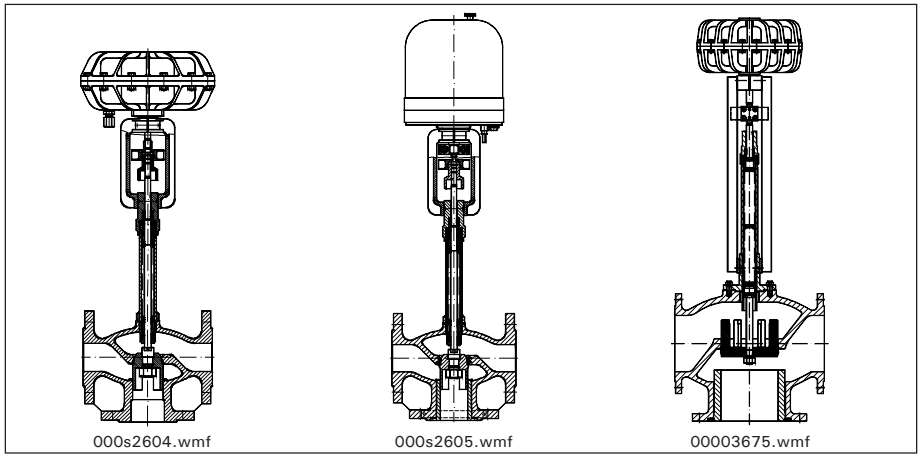


Fig. 13
342-BK-SS-373-P21 347-BK-SS-373-E40 347-BBK-SS-373-P31

ND	15			20	25	32	40	50	65	80	100	125	150	200	250	300
Kvs	2,0	3,0	5,6	6,3	9	16	25	36	63	105	130	200	360	580	960	1340



342-BK-SS-DN32-P21-IP86.JPG

Fig. 14
342-BK-SS with 373-P21 and IP86



342-BK-SS-DN32-E07.JPG

Fig. 15
342-BK-SS with 373-E07



347-BBK-SS-5441311.JPG

Fig. 16
347-BBK-SS with 373-P41-V

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Bälz-electrodyn 2- and 3-way control valves for hot oil

Text for quotations + orders for ND 15 - 125:

We recommend to install ahead of each control valve a strainer baelz 70200.

Hot oil 3-way valve with bellows and with electric*1 or with pneumatic actuator*2 and i/p positioner as mixing valve (2 inlets A + B, 1 outlet AB)

baelz 342-BK-SS-373-XX

with equal percentage V-port plug
trough-way (A-AB) Kvso = 0.004%
angle-way (B-AB) Kvso = 2%
body material: GJS-400-18-LT – JS 1025 (GGG 40.3)
trim in stainless steel; spindle seal with bellows and safety gland
max. 350°C/8 bar or max. 120°C/16 bar
stroke ND 15 – 25: 12 mm
ND 32 – 125: 22 mm
flow : hot oil: ..... m³/h
pressure drop Δp_{100} = ... bar
max. closing pressure Δp_0 = ... bar
as mixing valve

*1 *2

Short presentation of all electric and pneumatic actuators see page 11

Control valve type 342-BK-SS-373-XX			NP 16						
			with motorized actuator XX = 373-E07-20-18-S21-230			with pneumatic actuator and i/p postioner XX = 373-P21-YY-Fu-S21-86/IP6000-M			
ND	stroke [mm]	Kvs [m³/h]	Dp_0 max. [bar]	Order No.		YY	Δp_0 max. [bar]	Order No.	
15	12	5.6	16	342-2115		06	16	342-2615	
20	12	6.3	16	342-2116		06	16	342-2616	
25	12	9	16	342-2117		06	16	342-2617	
32	22	16	16	342-2118		06	16	342-2618	
40	22	25	12	342-2119		06	13.5	342-2619	
50	22	36	8	342-2120		06	8.9	342-2620	
65	22	63	4.6	342-2121		12	8	342-2621	
80	22	105	2.9	342-2122		18	7	342-2622	
100	22	130	1.7	342-2123		V6	8	342-2623	
125	22	200	1	342-2124		V6	5	342-2624	

Supplement for potentiometer 5 kΩ and sequence amplifier baelz 1020-230-M for baelz 373-E07 to receive a positioning signal 0-10 V or 4-20 mA
Supplement for potentiometer 5 kΩ and sequence amplifier baelz 1020-230-M for baelz 373-E40 to receive a positioning signal 0-10 V or 4-20 mA
Supplement for potentiometer 5 kΩ and sequence amplifier baelz 1020-230-M for baelz 373-E11 to receive a positioning signal 0-10 V or 4-20 mA
Supplement for 3-way solenoid valve baelz 268/2-230-M for baelz 373-P21
Supplement for air pressure reduction set baelz 54298-¼"-M:
Supplement for feedback potentiometer 0-5 kΩ: baelz 373-E07-Fg-5kΩ
baelz 373-E40-Fg-5kΩ
baelz 373-E11-Fg-5kΩ
Supplement for spring return actuator baelz 373-E11-20-17 with 2000 N instead of baelz 373-E07

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Bälz-electrodyn 2- and 3-way control valves for hot oil

4. Summary of linear electric and pneumatic actuators 373-E and 373-P

baelz 373-EXX XX: 06, 07, 40, 60, 88			**baelz 373-EXX XX: 11, 13**	**baelz 373-PXX XX: 21, 22, 31, 32, 41**		
standard motorized actuators that remain in their position in case of power failure for open - stop - close or 4 - 20 mA or on - off operation			spring return motorized actuators that either close or open in case of power failure; only for valves ND 15 - ND 125 with yoke S21	pneumatic actuators air - to - open or air - to - close for max. 6 bar air signal pressure; for strokes up to 66 mm		
type	thrust	stroke speed	type, trust, stroke speed	type	diaph. surface	thrust
373-E06	2000 N	6 mm / min.	baelz 373-E11 / E13-D	373-P21	240 cm^2	1020 - 7590 N
373-E07	2000 N	6 + 18 mm / min.	2000 N, 6 + 17 mm / min.	373-P22	240 cm^2	1846 - 3692 N
373-E40	4000 N	20 mm / min.	baelz 373-E11 / E13-Z	373-P31	620 cm^2	2480 - 10560 N
373-E60	9000 N	18 mm / min.	2000 N, 6 + 17 mm / min.	373-P32	620 cm^2	2201 - 8115 N
373-E88	10000 N	22 mm / min.		373-P41	1250 cm^2	3765 - 31920 N

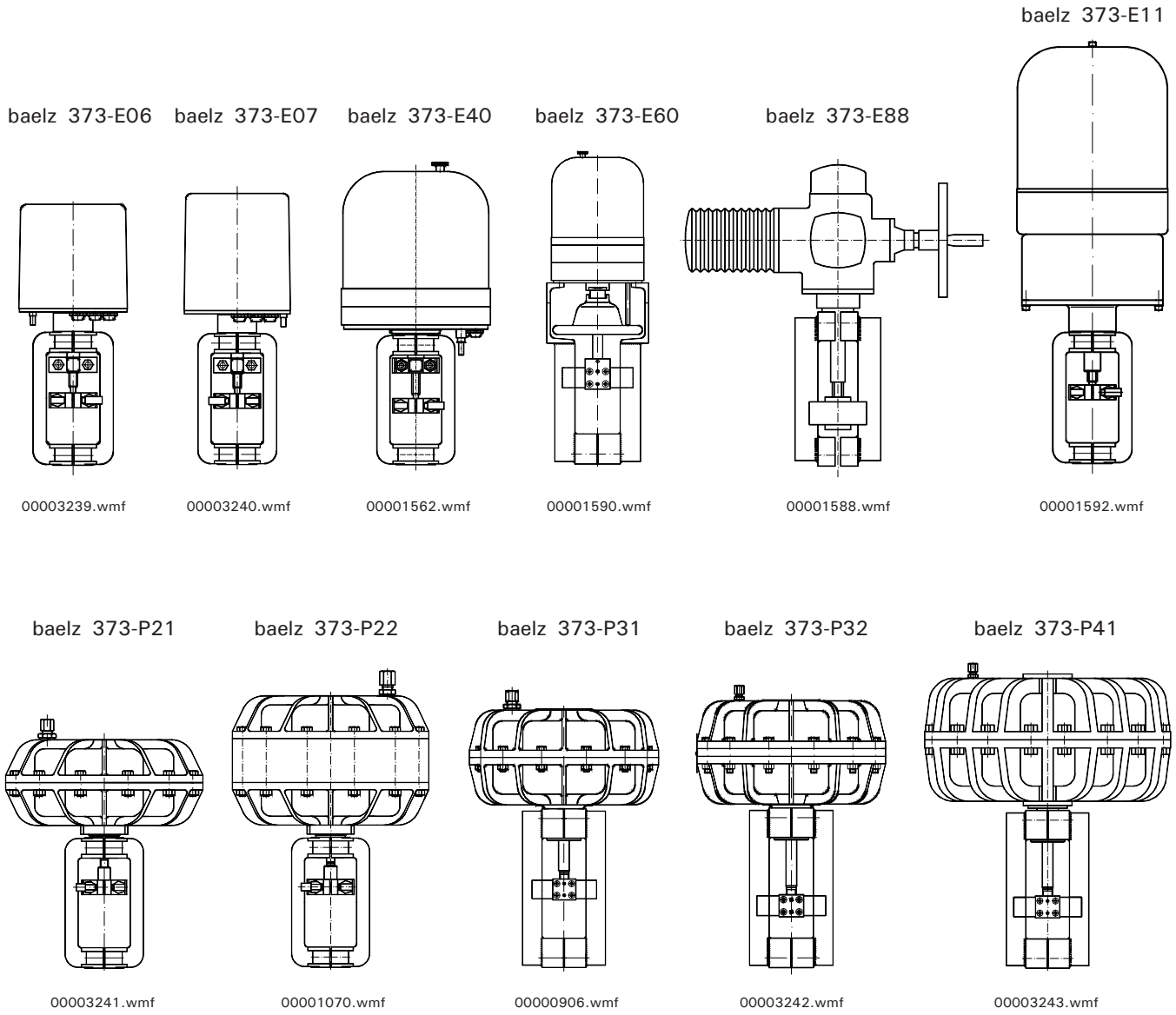


Fig. 17 electric + pneumatic baelz actuators

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Bälz-electrodyn 2- and 3-way control valves for hot oil

4.1 How to mount an electrical actuator on a baelz valve

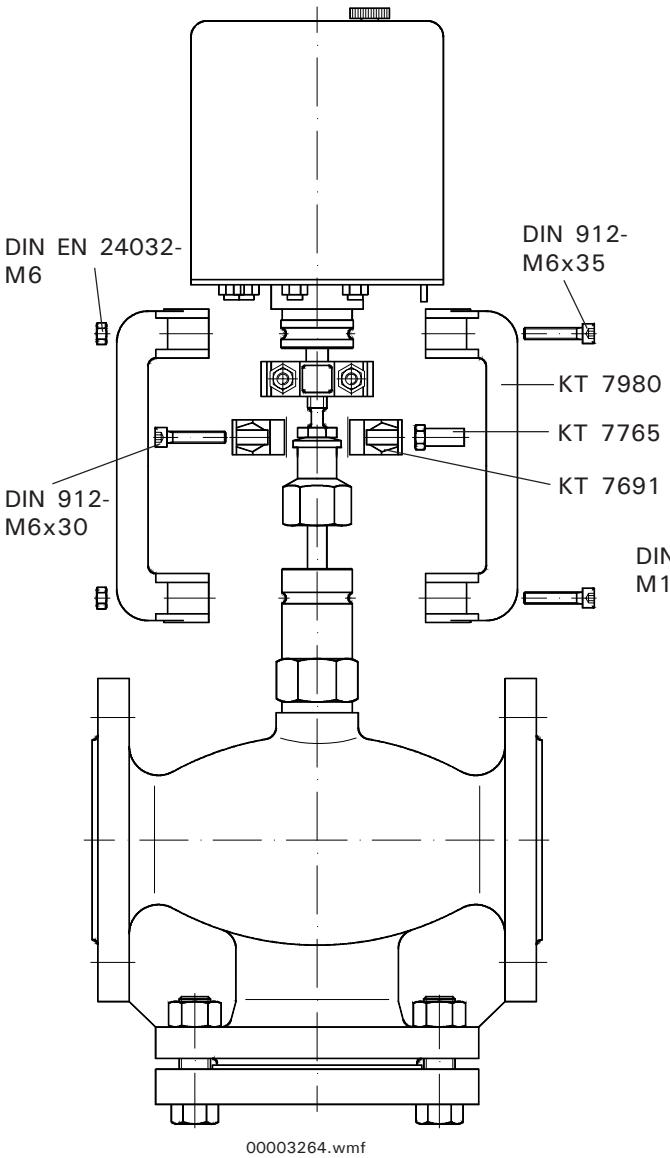


Fig. 18
mounting an actuator baelz 373-E06-S21
on a valve baelz 340-B
ND 15 - ND 125

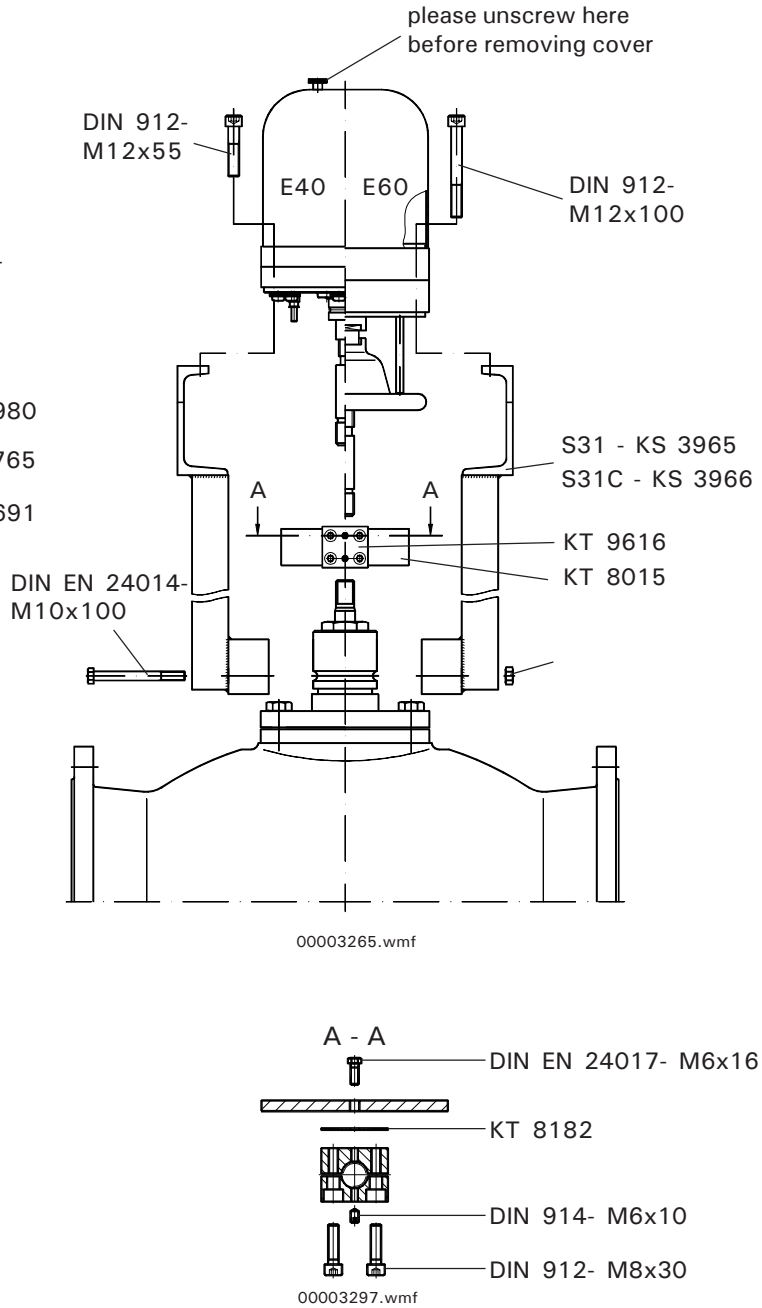


Fig. 19
mounting an actuator baelz 373-E40-S31
and baelz 373-E60-S31 on a valve baelz 340-BB
ND 150 - ND 300

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Bälz-electrodyn 2- and 3-way control valves for hot oil

4.2 How to mount a pneumatic actuator on a baelz valve

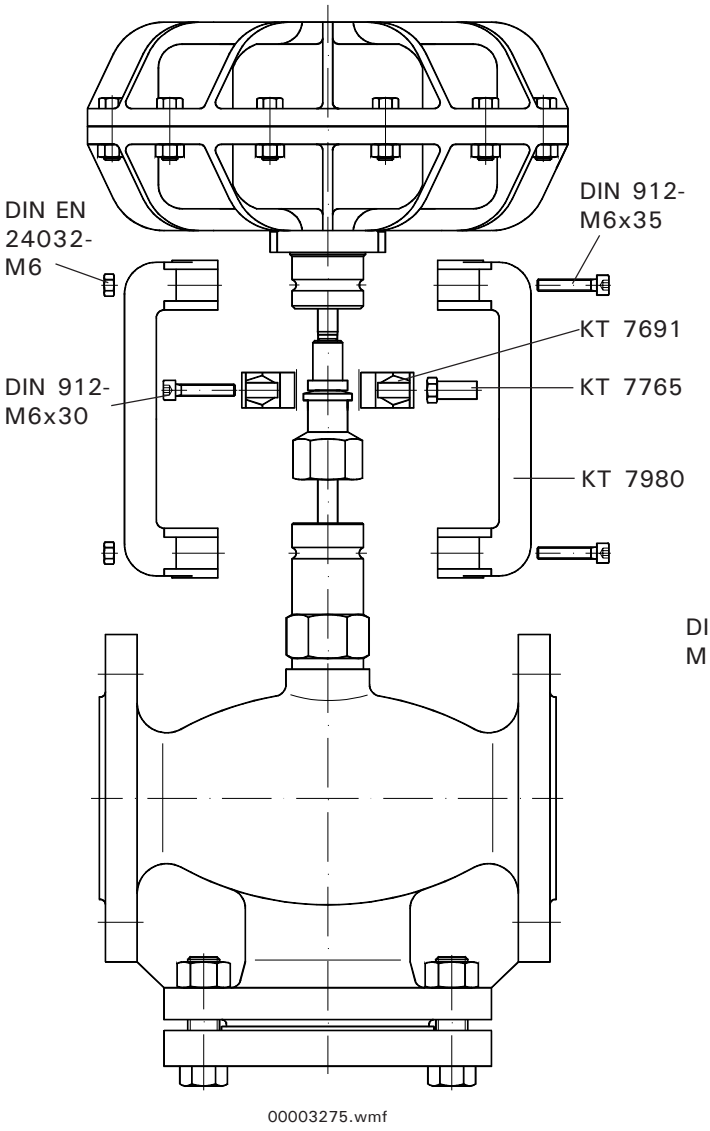


Fig. 20
mounting of a pneumatic actuator baelz 373-P21 on a valve baelz 340-B

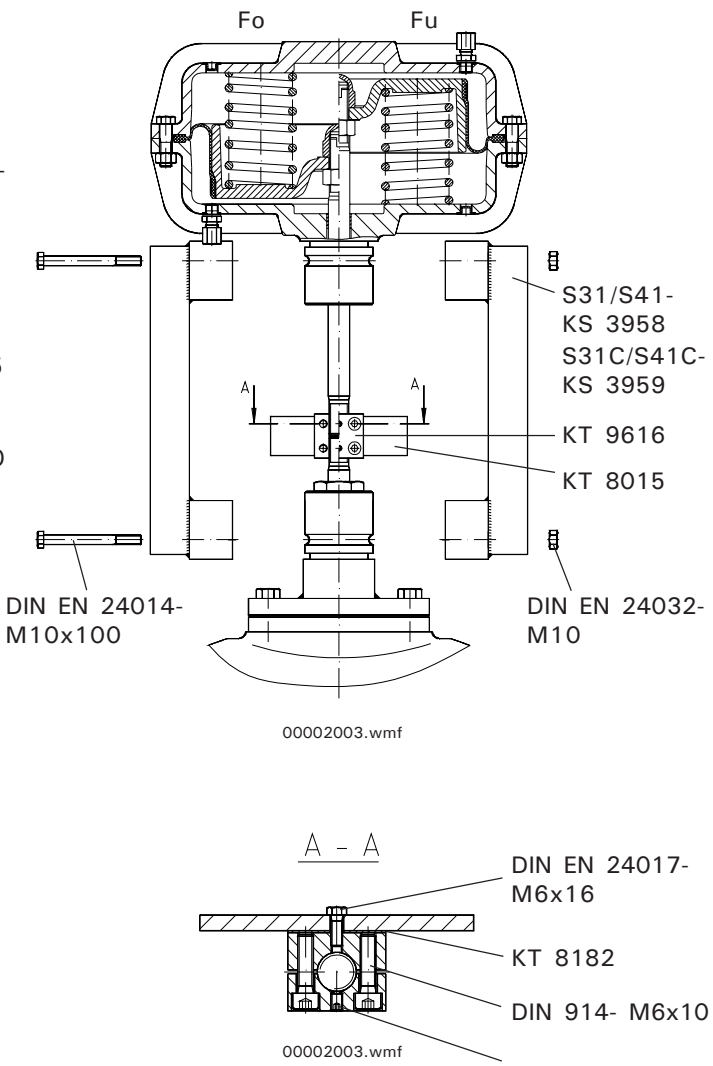


Fig. 21
mounting of a pneumatic actuator baelz 373-P31 on a valve baelz 340-BB

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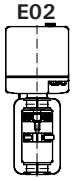
Bälz-electrodyn 2- and 3-way control valves for hot oil

5. Max. allowable differential pressures based on actuator draw / push F.

5.1 Max. differential pressure against which the motorized 2-way or 3-way mixing valve (in at A + B, out at AB) closes; for valves baelz 334, 335, 340, 342, 344, 347, 340-BB, 346-22, 347-BB, 340-ES, 342-ES, 347-ES, 353, 354, 356, 358-K, 359-K, 359-ASA with actuators see first column.

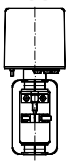
type	F	ND	Δpmax bar												
baelz 373-	N	15	20	25	32	40	50	65	80	100	125	150	200	250	300
E02- 10-	1000	25	25	16	10	6,3	4	2,4	1,5	1	0,6				
E06- 20-	2000	40	40	32	20	12	8	4,8	3	2	1,2				
E07- 20-	2000	40	40	35	20	12	8	4,6	2,9	1,7	1				
E11- 20-	2000	40	40	35	20	12	8	4,6	2,9	1,7	1				
E40- 40-	4000	40	40	40	40	27	16	10	6,9	4,4	2,8	1,7			
E60- 90-	9000					(40)*	(40)*	(25)*	(16)*	(10)*	(6,6)*	4,3	2,4	1,5	1
E88- 100-	10000						40	28	18	11	7,4	5	2,7	1,7	1,1
	13000						40	37	24	15	9,8	6,7	3,7	2,3	1,5
	16000						40	40	30	19	12	8,4	4,6	2,9	2
E88- 300-	30000								(40)*	(36)*	(23)*	15,3	9	5,8	3,9
	35000											18,9	10,5	6,7	4,6
	40000											21,7	12,1	7,7	5,3

baelz 373-E02



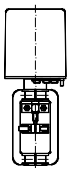
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baelz 373-E06



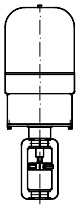
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baelz 373-E07



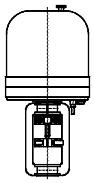
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baelz 373-E11



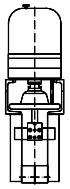
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baelz 373-E40



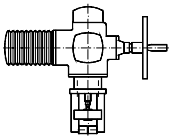
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baelz 373-E60



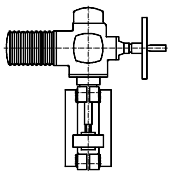
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baelz 373-E88-100

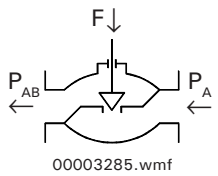


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baelz 373-E88-300

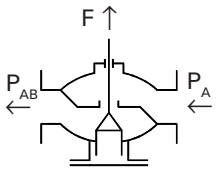


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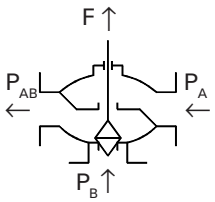
00003285.wmf

Δpmax = P_A - P_{AB}



00003286.wmf

Δpmax = P_A - P_{AB}

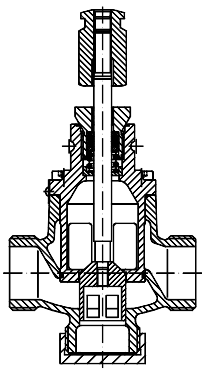


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Δpmax = P_A - P_{AB}

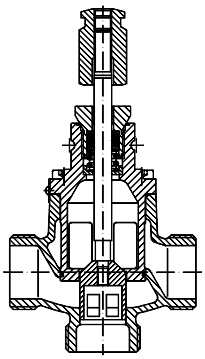
Δpmax = P_A - P_B

baelz 334



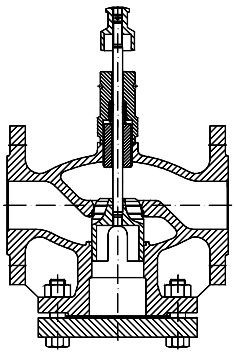
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baelz 335



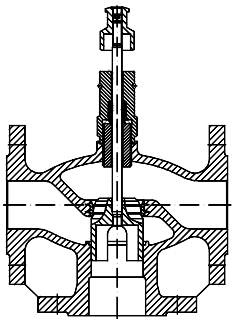
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baelz 340...



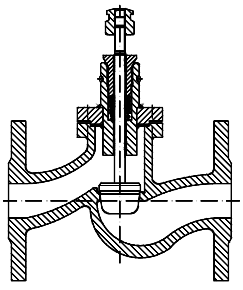
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baelz 342...



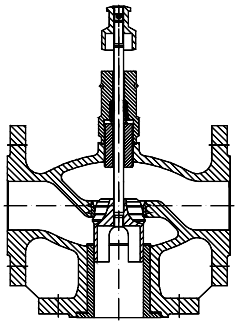
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baelz 344



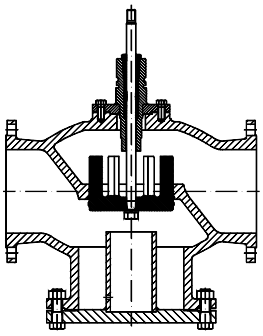
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baelz 347...



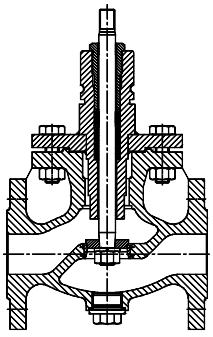
00003226.wmf

baelz 340-BB...



00001655.wmf

***baelz 346-22**



00003252.wmf

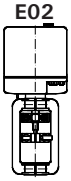
Rights reserved to make technical changes

Bälz-electrodyn 2- and 3-way control valves for hot oil

5.2 Max. differential pressure against which the motorized 3-way diverting valve (in at AB, out at A + B) can be operated; for valves baelz 335, 342-B, 342-BK, 342-BK-SS, 347-B, 347-BK, 347-BK-SS, 347-BB, 347-BBK, 347-BBK-SS; for higher differential pressures a special design with 2 separate plugs is available.

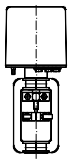
type	F	ND Δpmax bar													
baelz 373-	N	15	20	25	32	40	50	65	80	100	125	150	200	250	300
E02- 10-	1000	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,5				
E06- 20-	2000	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6				
E07- 20-	2000	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6				
E11- 20-	2000	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6				
E40- 40-	4000	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6				
E60- 90-	9000											0,6	0,4	0,2	0,1
E88- 100-	10000											1	0,6	0,6	0,6
E88- 300-	30000											1	0,6	0,6	0,6

baelz 373-E02



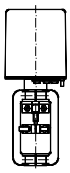
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baelz 373-E06



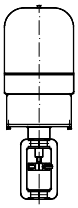
00003239.wmf

baelz 373-E07



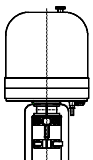
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baelz 373-E11



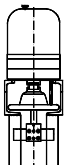
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baelz 373-E40



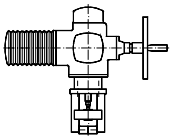
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baelz 373-E60



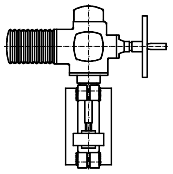
00001590.wmf

baelz 373-E88-100

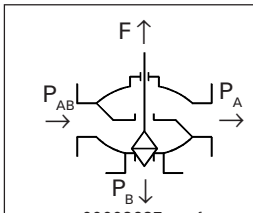


00003296.wmf

baelz 373-E88-300



00001588.wmf

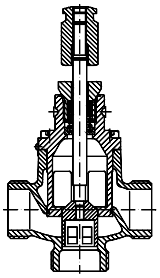


00003287.wmf

$\Delta pmax = P_{AB} - P_A$

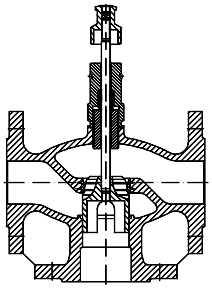
$\Delta pmax = P_{AB} - P_B$

baelz 335



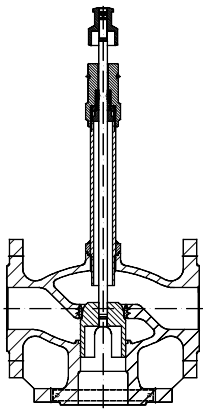
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baelz 342-B



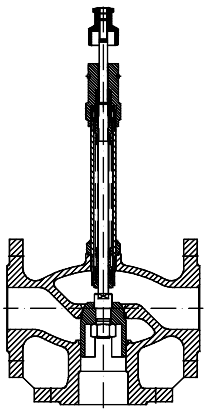
00003225.wmf

baelz 342-BK



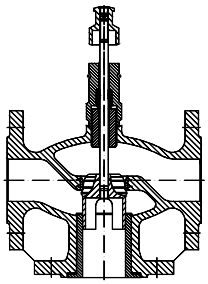
00001515.wmf

baelz 342-BK-SS



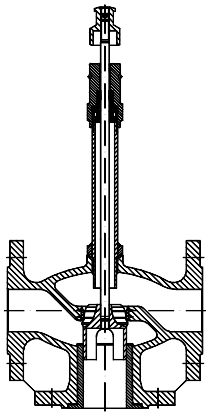
00003236.wmf

baelz 347-B



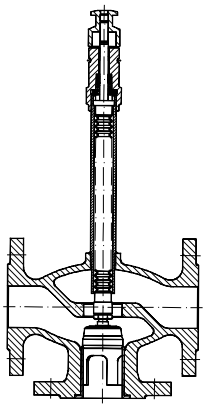
00003226.wmf

baelz 347-BK



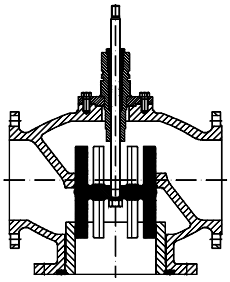
00003227.wmf

baelz 347-BK-SS



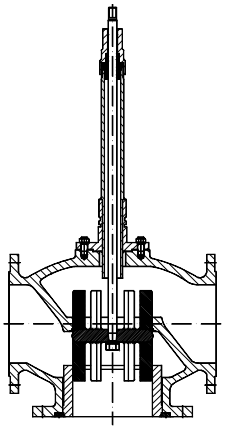
00001673.wmf

baelz 347-BB



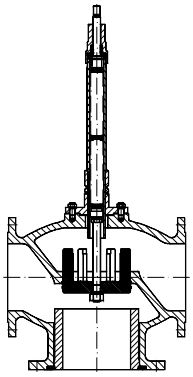
00001524.wmf

baelz 347-BBK



00001672.wmf

baelz 347-BBK-SS



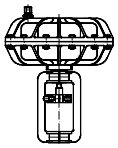
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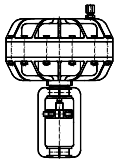
Rights reserved to make technical changes

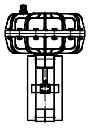
Bälz-electrodyn 2- and 3-way control valves for hot oil

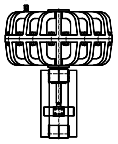
5.3 Max. differential pressure against which the pneumatic 3-way mixing valve (in at A + B, out at AB) can be operated; for valves baelz 335, 342, 347, 347-BB, 342-ES, 347-ES, 353, 354.
pz = necessary air signal pressure

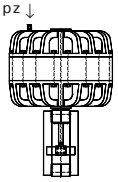
type	F	pz	ND Δpmax bar													
baelz 373-	N	bar	15	20	25	32	40	50	65	80	100	125	150	200	250	300
P21- 3	1020	1,2	7	7	4,5	2,8	1,8	1,1	0,6	0,4	0,3	0,2				
P21- 6	2040	3	40	40	35	21	13,5	8	5	3,4	2,2	1,4				
P21- 12	3390	6	40	40	40	36	23	14	8	5	3,5	2,1				
P21- 18	4030	6	40	40	40	40	27	18	10	7	4,5	2,8				
P21- V6	7590	6	40	40	29	18	11,5	7	4,3	2,8	1,8	1,2				
P31- 3	2480	1,2											0,6			
P31- 6	4960	3											2,3			
P31- 18	10560	6											5			
P41- 3	3765	1,2											2,4	1	0,65	0,45
P41- 6	7530	3											4,8	2	1,3	0,9
P41- V6	31920	6											8,2	3,5	2,3	1,6

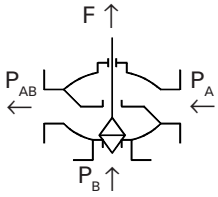
baelz 373-P21
pz↓

00003241.wmf

baelz 373-P21-V6
pz↓

00003294.wmf

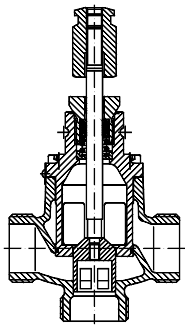
baelz 373-P31
pz↓

00000906.wmf

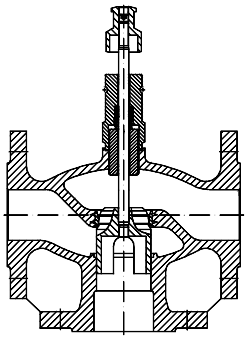
baelz 373-P41
pz↓

00003243.wmf

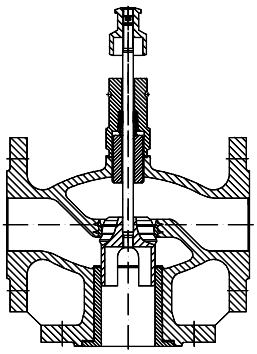
baelz 373-P41-V6
pz↓

00003295.wmf

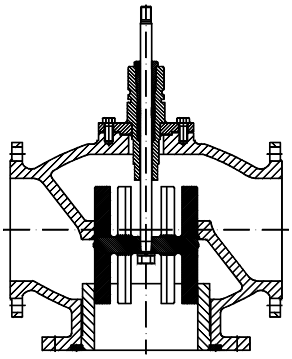


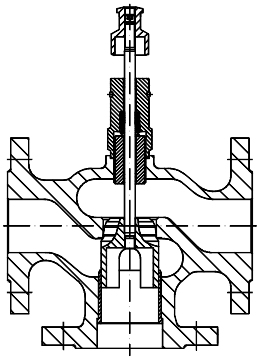
00003288.wmf
Δpmax = P_A - P_{AB}
Δpmax = P_A - P_B

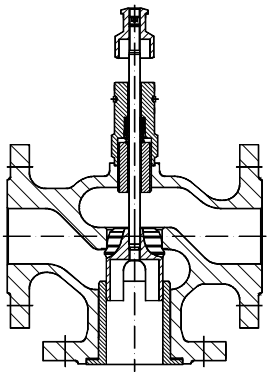
baelz 335

00002264.wmf

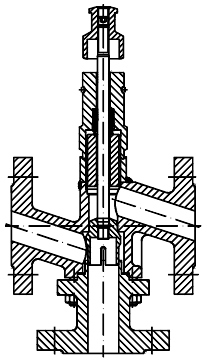
baelz 342...

00003225.wmf

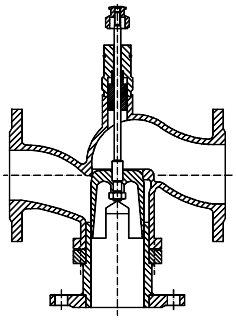
baelz 347...

00003226.wmf

baelz 347-BB...

00001524.wmf

baelz 342-ES...

00003289.wmf

baelz 347-ES...

00003290.wmf

baelz 353...

00003237.wmf

baelz 354...

00003238.wmf

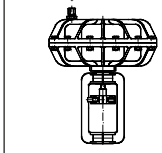
Rights reserved to make technical changes

Bälz-electrodyn 2- and 3-way control valves for hot oil

5.4 Max. differential pressure against which the pneumatic 3-way diverting valve (in at AB, out at A + B) can be operated; for valves baelz 335, 342-B, 342-BK, 342-BK-SS, 347-B, 347-BK, 347-BK-SS, 347-BB, 347-BBK, 347-BBK-SS; for higher differential pressures a special design with 2 separate plugs is available. pz = necessary air signal pressure

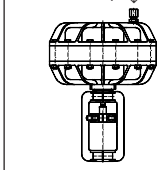
type	F	pz	ND Δpmax bar													
baelz 373-	N	bar	15	20	25	32	40	50	65	80	100	125	150	200	250	300
P21- 3	1020	1,2	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6				
P21- 6	2040	3	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6				
P21- 12	3390	6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6				
P21- 18	4030	6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6				
P21- V6	7590	6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6	0,6				
P31- 3	2480	1,2											0,6			
P31- 6	4960	3											0,6			
P31- 18	10560	6											0,6			
P41- 3	3765	1,2											0,6	0,6	0,6	0,6
P41- 6	7530	3											0,6	0,6	0,6	0,6
P41- V6	31920	6											0,6	0,6	0,6	0,6

baelz 373-P21



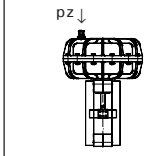
00003241.wmf

baelz 373-P21-V6



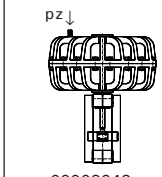
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baelz 373-P31



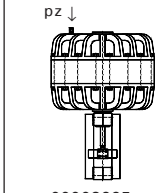
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baelz 373-P41

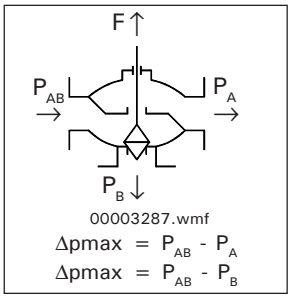


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baelz 373-P41-V6



00003295.wmf

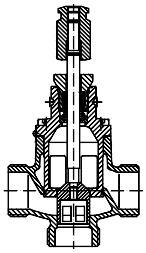


00003287.wmf

Δpmax = P_{AB} - P_A

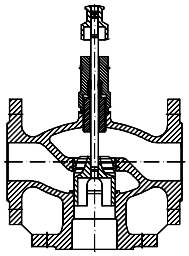
Δpmax = P_{AB} - P_B

baelz 335



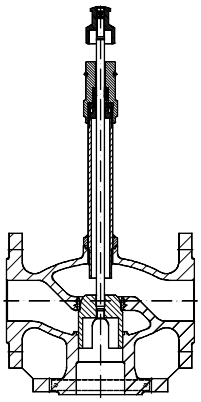
00002264.wmf

baelz 342-B



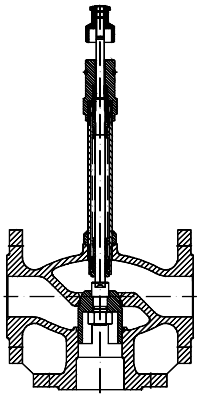
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baelz 342-BK



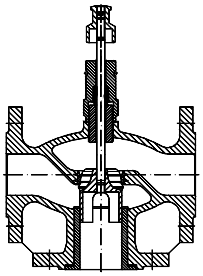
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baelz 342-BK-SS



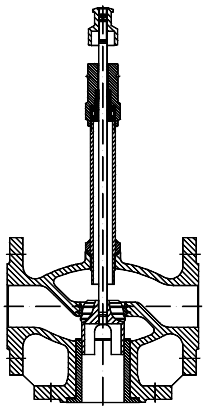
00003236.wmf

baelz 347-B



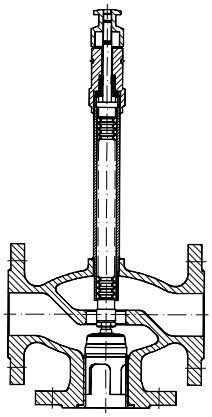
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baelz 347-BK



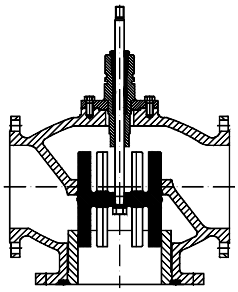
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baelz 347-BK-SS



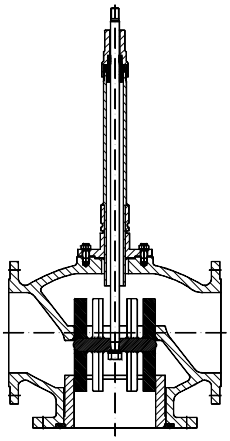
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baelz 347-BB



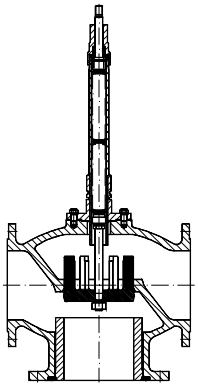
00001524.wmf

baelz 347-BBK



00001672.wmf

baelz 347-BBK-SS



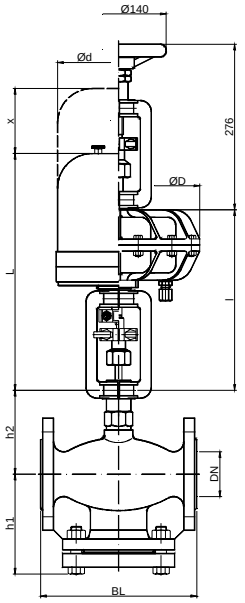
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Bälz-electrodyn 2- and 3-way control valves for hot oil

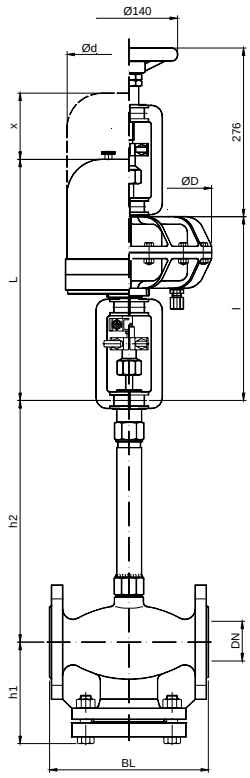
6. Dimensions

baelz 340-B DN 15 - 125
baelz 340-ES DN 15 - 125
baelz 340-B-EM DN 50 - 125



00000300.wmf

baelz 340-BK DN 15 - 125
baelz 340-BK-SS DN 15 - 125



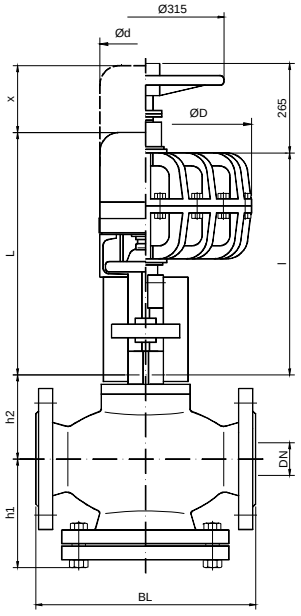
00000303.wmf

DN	BL	h 1	h 2 340-B / -ES / -B-EM	h 2 340-BK / -BK-SS
mm				
15	130	101	105	231
20	150	103	105	231
25	160	113	105	231
32	180	130	104	283
40	200	135	114	281
50	230	147	124	277
65	290	159	144	269
80	310	166	154	269
100	350	189	169	262
125	400	243	189	252

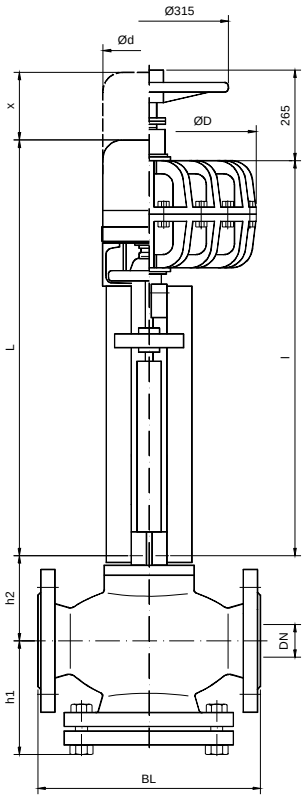
Actuator baelz 373...	L	x	Ø d	l	Ø D
	mm				
E 02	293	90	129		
E 06	296	130	129		
E 07	317	145	129		
E 11	499	180	183		
E 40	391	185	184		
P 21				268	242
P 21 V6				304	242
P22				322	242

baelz 340-BBK DN 150 - 300
baelz 340-BBK-SS DN 150-300

baelz 340-BB
DN 150 - 300
baelz 340-BB-EM
DN 150 - 300



00000373.wmf



00000376.wmf

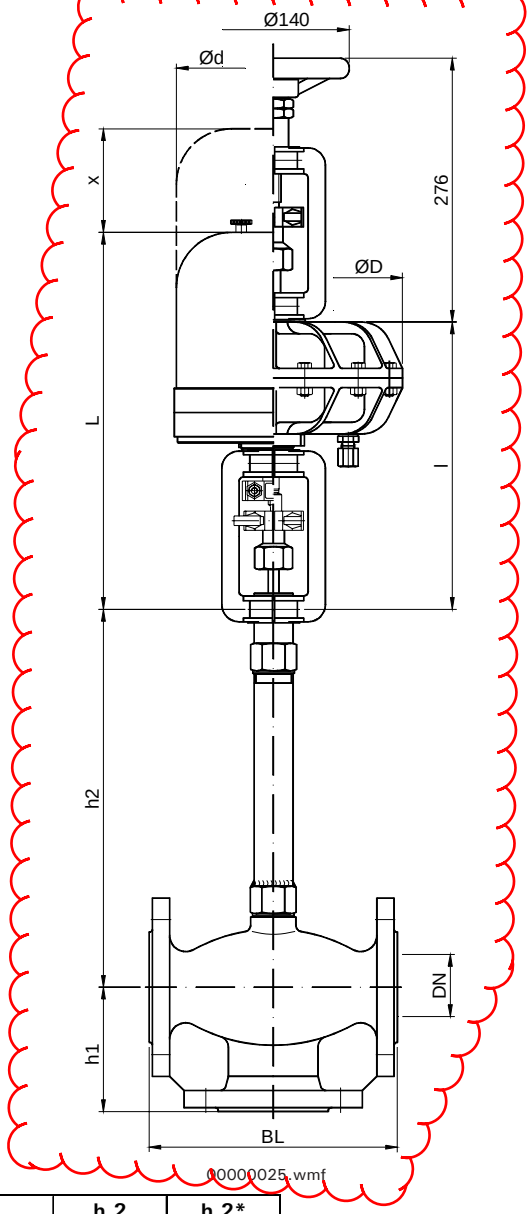
DN	BL	h 1 PN 16	h 1 PN 25	h 1 PN 40	h 2 340-BB / -BB-EM	h 2 340-BBK / -BBK-SS
mm						
150	480	269	277	277	244	234
200	600	272	280	288	268	258
250	730	314	322	332	317	307
300	850	327	335	345	361	351

Actuator baelz 373...	L 340 -BB / -BB-EM	L 340 -BBK / -BBK-SS	x	Ø d	l 340 -BB / -BB-EM	l 340 -BBK / -BBK-SS	Ø D
	mm						
E 40	577	1057	185	184			
E 60	601	1081	185	184			
P 31					509	989	384
P 32					525	1005	384
P 41					562	1042	506
P 41 V6					687	1167	506

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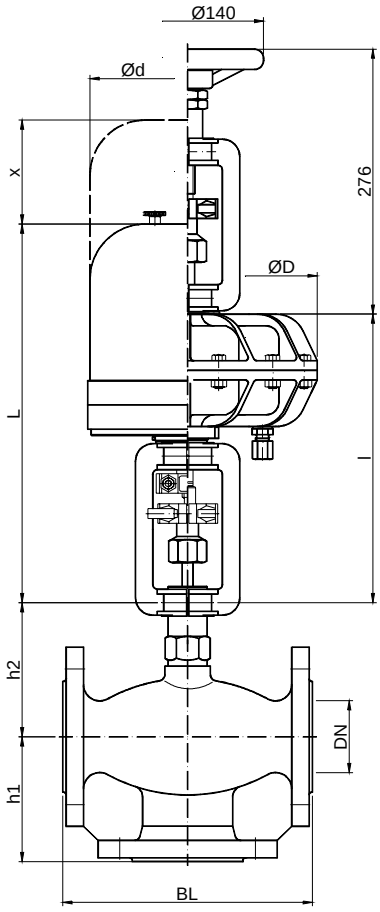
Bälz-electrodyn 2- and 3-way control valves for hot oil

baelz 342-BK DN 15 - 125
baelz 342-BK-SS DN 15 - 125
baelz 347-BK DN 15 - 125
baelz 347-BK-SS DN 15 - 125



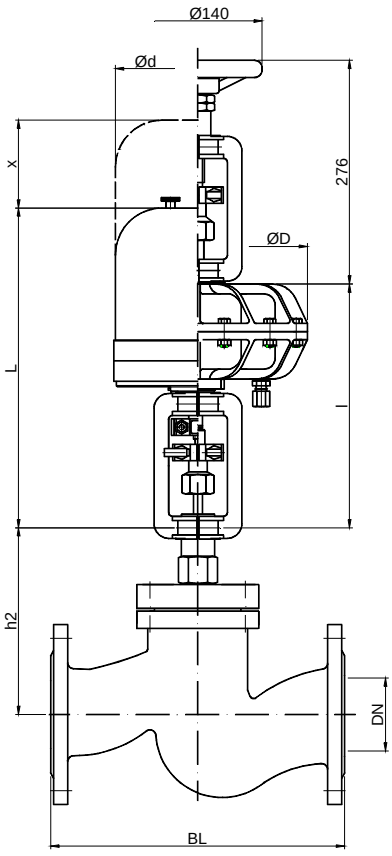
00000025.wmf

baelz 342-B DN 15 - 125
baelz 342-ES DN 15 - 125
baelz 347-B DN 15 - 125
baelz 347-ES DN 15 - 125
baelz 347-B-EM DN 50 - 125



00000028.wmf

baelz 344-VA DN 32 - 125
baelz 344-EM-VA DN 50 - 125



00000443.wmf

DN	BL	h 1	h 2 342-B / -ES 347-B / -ES / -B-EM	h 2 342-BK / -BK-SS 347-BK / -BK-SS	h 2* 344-VA / -EM-VA
mm					
15	130	75	105	231	
20	150	75	105	231	
25	160	85	105	231	
32	180	100	104	283	145
40	200	105	114	281	155
50	230	115	124	277	174
65	290	125	144	269	184
80	310	130	154	269	189
100	350	150	169	262	208
125	400	200	189	252	227

*reserved to change dimensions

Actuator baelz 373...	L	x	Ø d	l	Ø D
	mm				
E 02	293	90	129		
E 06	296	130	129		
E 07	317	145	129		
E 11	499	180	183		
E 40	391	185	184		
P 21				268	242
P 21 V6				304	242
P22				322	242

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