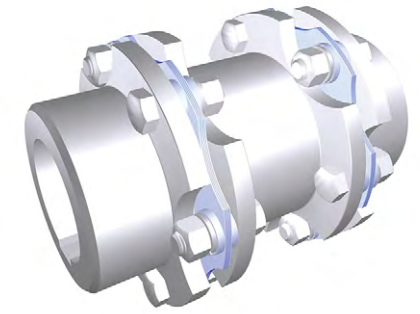
Self-adjusting couplings are characterized by:

- ability to operate in high temperatures and in harmful environment (totally made of metal),
- transferring high torques with small dimensions and high rotational speed,
- compensation of deviations of joined shaft ends position,
- lack of torsional susceptibility (precision of positioning),
- service free (AMB),
- possibility of membrane replacement without the necessity of drawing the joined shaft ends aside (AMB).



APPLICATIONS: machinery for chemical, paper, steel, food and pumps industry, blowers, compressors, stirrers, conveyors, crushers, fans and other machinery and equipment.

MATERIAL: steel.

WORKING CONDITIONS: work at temperature: **AMB** up to 250°C, **SPD, SPJ** of -20°C up to +80°C.

OPERATION IN THE AREAS WITH THE DANGER OF EXPLOSIONS:
"Ex" couplings (see method of marking) are intended for operation in the areas with the danger of explosion (groups: I M2, II2D, II2G). couplings of this construction are made with set screws.

METHOD OF MARKING:

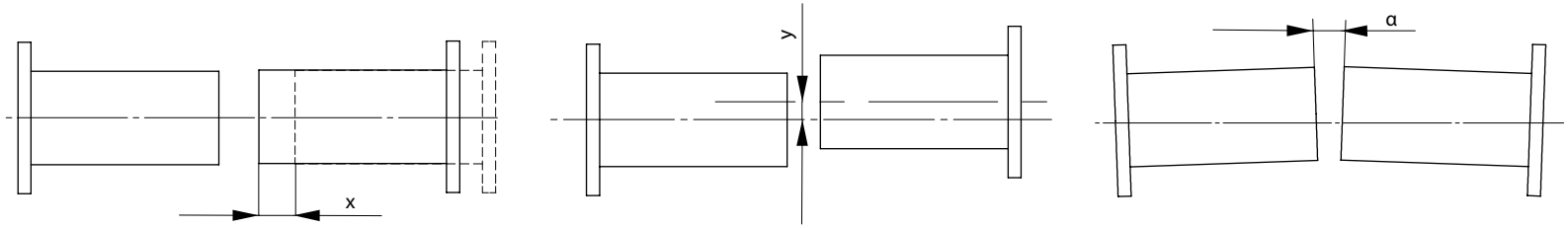
[**name**] – [**M_n**] – [**d_1**] / [**l_1**] – [**d_2**] / [**l_2**] – [**size**][**type**] – [**variant**] – [**version***]

* only when it concerns a given type, where:

name	e.g. steel membrane coupling
M_n	nominal torque [Nm]
d_1, d_2 (d_{11}, d_{12})	diameters of the holes [mm] (for the couplings with brake drum or disc d1 – transmission side) in the case of ordering the coupling without holes for shaft ends "0" should be placed; in the case of lead hole according to the catalogue – "ow" marking, and in the case of pilot bores other than in the catalogue, the diameter of the hole should be added after the "ow" marking (e.g. "ow25")
l_1, l_2	the length of the holes in the hubs [mm]
size	e.g. 75
type	e.g. AMB
variant	e.g. A
version	Ex – for operation in the areas with the danger of explosion WS… – special (individual arrangements)

BALANCING: couplings are normally balanced statically (some sizes of the couplings with bigger brake drums or discs are normally balanced dynamically-check remarks in the catalogue). After the arrangement there is a possibility of dynamic balancing of each coupling.

MAXIMUM DEVIATIONS: Given values of maximum deviations ("x" – axial, "y" – radial, „α" – angular) cannot appear at the same time.



Type	AMB – variant A															
Coupling size	120	125	135	138	142	150	160	170	180	185	190	205	215	235	236	256
x [mm]	0,6	0,8	1	1,2	1,4	1,6	1	1,1	1,3	1,3	1	1,2	1,4	1,75	1,85	2,1
y [mm]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
α [°]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0,7	0,7

Type	AMB – variant B, C													
Coupling size	120	125	135	138	142	150	160	170	180	185	190	205	215	235
x [mm]	1,2	1,6	2,0	2,4	2,8	3,2	2,0	2,2	2,6	2,6	2,0	2,4	2,8	3,5
y [mm]	0,2	0,2	0,3	0,3	0,4	0,4	0,8	0,4	1,2	1,2	1,1	1,4	1,5	0
α [°]	2	2	2	2	2	2	2	2	2	2	2	2	2	2

The recommended deviation values should be up to 50% of the maximum deviation value.

AFL			
Coupling size	Angular deviation α [°]	Axial deviation x [mm]	Radial deviation y [mm]
80	0,5	0,5	0,2
105			
125			
150		1	0,3
180			
210			
230		2	0,5
250			
300			
320		3	0,6
350			
370			
400		4	0,8
500			
600			

Type	SPJ								
Coupling size	001	002	003	004	005	006	007	008	009
x [mm]	1	1	1	2	2	2	3	3	3
y [mm]	0	0	0	0	0	0	0	0	0
α [°] revolutions [1/min]									
0–500	0,5								
500–1000	0,3								
1000–2000	0,2								
2000–3000	0,1								

Type	SPD								
Coupling size	001	002	003	004	005	006	007	008	009
x [mm]	2	2	2	4	4	4	6	6	6
y [mm] revolutions [1/min]									
0–500	0,5	0,7	0,9	1,2	1,3	1,5	1,8	2,1	2,4
500–1000	0,3	0,4	0,5	0,7	0,8	0,9	1,1	1,3	1,4
1000–2000	0,2	0,3	0,4	0,5	0,5	0,6	0,7	0,8	1,0
2000–3000	0,1	0,1	0,2	0,2	0,3	–	–	–	–
α [°] revolutions [1/min]									
0–500	1								
500–1000	0,6								
1000–2000	0,4								
2000–3000	0,2								

Recommended deviation values for couplings SPD (series E), SPJ (series E) and SPJ-SBH (series E): up to 30% of the value of the maximum deviation.

Angular deviation α [°]	Coupling size SPJ (series E)
0,75	45
0,75	60
0,75	75
0,75	95
0,75	110
0,75	130
0,75	155
0,75	175
0,75	195
0,75	215
0,75	240
0,75	275
0,75	280
0,75	320
0,75	360N
0,75	400N
0,75	450N
0,75	500
0,75	530
0,75	560
0,75	600
0,75	660
0,75	730
0,75	830
0,75	900
0,75	1000
0,75	1060
0,75	1130

Radial deviation y [mm]	Angular deviation α [°]	Coupling size SPD (series E)
0,35	1,5	45
0,4	1,5	60
0,5	1,5	75
0,6	1,5	95
0,7	1,5	110
0,9	1,5	130
1,0	1,5	155
1,1	1,5	175
1,2	1,5	195
1,4	1,5	215
1,5	1,5	240
1,7	1,5	275
2,0	1,5	280
2,1	1,5	320
2,3	1,5	360N
2,5	1,5	400N
2,7	1,5	450N
2,8	1,5	500
3,0	1,5	530
3,2	1,5	560
3,4	1,5	600
3,6	1,5	660
3,7	1,5	730
4,0	1,5	830
4,4	1,5	900
4,8	1,5	1000
5,2	1,5	1060
5,4	1,5	1130