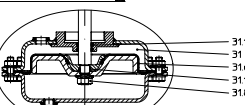
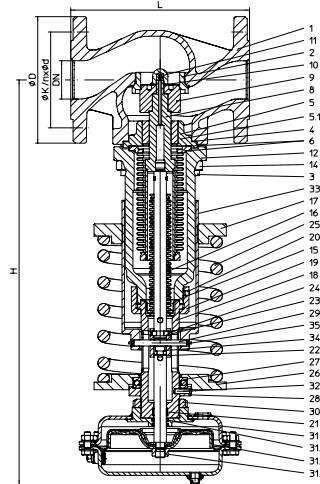
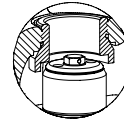


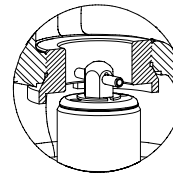
Excess pressure regulator, straight through with diaphragm actuator UDA



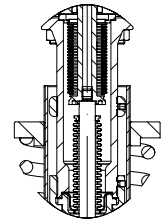
Stainless steel - Actuator



Plug DN 15 - 32



Plug DN 40 - 150



Bellows seal DN 15 - 40

Figure	Nominal pressure	Material	Nominal diameter	Inlet pressure ranges	Actuator
12.705	PN16	EN-JL1040	DN15-150	0,2 - 16 barg	UDA 400 UDA 250 UDA 160 UDA 80 UDA 40
22.705	PN16	EN-JS1049	DN15-150		
23.705	PN25	EN-JS1049	DN15-150		
34.705	PN25	1.0619+N	DN15-150		
35.705	PN40	1.0619+N	DN15-150		
62.705	PN16	1.4581	DN15-150		
65.705	PN40	1.4581	DN15-150		

Parts						
Pos.	Sp.p.	Description	Fig. 12.705	Fig. 22.705 Fig. 23.705	Fig. 34.705 Fig. 35.705	Fig. 62.705 Fig. 65.705
1		Body	EN-JL1040, EN-GJL-250	EN-JS1049, EN-GJS-400-18U-LT	GP240GH+N, 1.0619+N	GX5CrNiMoNb19-11-2, 1.4581
2	x	Screw seat ring	X20Cr13+QT, 1.4021+QT			X6CrNiMoTi17-12-2, 1.4571
3		Stud	25CrMo4, 1.7218 -A2B			A4-70
4	x	Gasket	Pure graphite (CrNi laminated with graphite)			
5		Bush housing	EN-JS1049, EN-GJS-400-18U-LT / X20Cr13+QT, 1.4021+QT			X6CrNiMoTi17-12-2, 1.4571
5.1		Guide bush	X20Cr13+QT, 1.4021+QT			X6CrNiMoTi17-12-2, 1.4571
6	x	Gasket	Pure graphite (CrNi laminated with graphite)			
8	x	Balanced-bellow-unit	X6CrNiMoTi17-12-2, 1.4571 / X5CrNi18-10, 1.4301 / X20Cr13+QT, 1.4021+QT			X6CrNiMoTi17-12-2, 1.4571
9	x	Plug	X20Cr13+QT, 1.4021+QT (hardened)			X6CrNiMoTi17-12-2, 1.4571 (hardened)
10		Washer	A2			A4
11		Hexagon screw	< DN40: A4-70			
11		Head	≥ DN40: X6CrNiTi18-10, 1.4541 / X20Cr13+QT, 1.4021+QT			≤DN50: X6CrNiTi18-10, 1.4541 >DN50: X6CrNiTi18-10, 1.4541 / X6CrNiMoTi17-12-2, 1.4571
12		Hood, geschlossen	EN-JS1049, EN-GJS-400-18U-LT			GX5CrNiMoNb19-11-2, 1.4581
14		Hexagon nut	C35E, 1.1181 -A2B			A4-70
15	x	Gasket	Pure graphite (CrNi laminated with graphite)			
16	x	Sealing-bellow-unit	X6CrNiMoTi17-12-2, 1.4571 / X5CrNi18-10, 1.4301 / X20Cr13+QT, 1.4021+QT			X6CrNiMoTi17-12-2, 1.4571
17		Adjusting plate	EN-JS1049, EN-GJS-400-18U-LT			
18		Head	EN-JS1030, EN-GJS-400-15			
19		Screw joint	11SMn30+C, 1.0715+C			
20		Thread pin	45H - A2B			
21		Guide bush	PTFE-25%C			
22		Guide coupling	X20Cr13+QT, 1.4021+QT			
23		Cylindrical balls	102Cr6, 1.2067			
24		Securing wire	X12CrNi17-7, 1.4310			
25	x	Spring	51CrV4, 1.8159			
26		Spring plate	S235JR, 1.0037			
27		Axial bearing	102Cr6, 1.2067			
28		Pressure plate	11SMn30+C, 1.0715+C			
29		Parallel pin	St			
30		Slotted nut	5.8 - A2B			
31	x	P-Actuator	DMA 40-80: EN-GJS-400-18U-LT, EN-JS1049 DMA 160-400: DD13+QZ, 1.0335+QT			X6CrNiMoTi17-12-2, 1.4571
31.6	x	Rolling diaphragm	NBR / EPDM			
31.8	x	Collar nut with sealing ring	8-A2B			--
31.8	x	Hexagon nut with flanges	--			A4
31.13	x	Rod seal	Polyurethan			
31.19	x	O-Ring	--			NBR / EPDM
32		Thread pin	45H-A2B			
33		Set value bonnet	GX5CrNiMo19-11-2, 1.4408			
34		Adapter	X20Cr13+QT, 1.4021+QT			
35		Securing wire	X39CrMo17-1+QT, 1.4122+QT			
L Spare parts						

ARI-PREDEX®

Fig. 705 / Pressure regulating controller



Your valve made by ARI®
ari-armaturen.com

DN	15	20	25	32	40	50	65	80	100	125	150
----	----	----	----	----	----	----	----	----	-----	-----	-----

Kvs-value													
Kvs-value	standard	(m³/h)	3,2	5	8	12,5	20	32	50	80	125	190	280
	reduced	(m³/h)	0,1 / 0,4 / 1 / 2,5	0,1 / 0,4 / 1 / 2,5 / 4	0,1 / 0,4 / 1 / 2,5 / 4 / 6,3	--	--	--	--	--	--	--	--
Seat-ø		(mm)	18	22	25	32	40	50	65	80	100	125	150
Travel		(mm)	4	5	6	8	8	10	11	13	16	19	22
Max. differential pressure drop		(bar)	16	16	16	16	16	16	16	16	16	16	16
Shutt off class			Leakage class I acc. to DIN EN 1349 or DIN EN 60534-4 (≤ 0,05% from Kvs-value)										

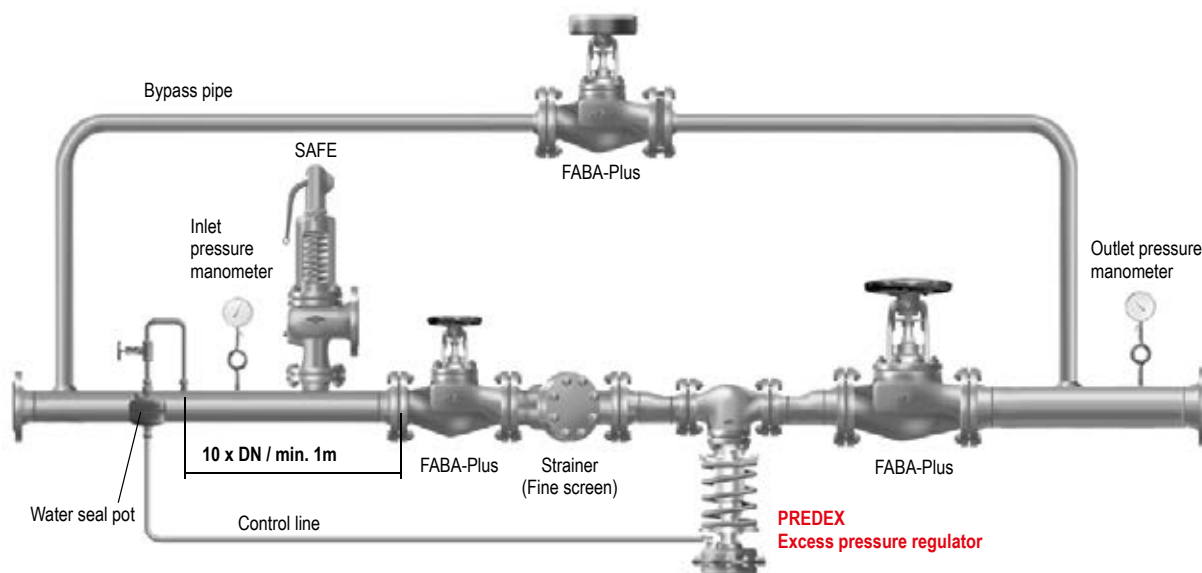
Face-to-face dimension FTF series 1 according to DIN EN 558												
L	(mm)	130	150	160	180	200	230	290	310	350	400	480

Dimensions												
H	UDA 400	(mm)	545	545	550	550	590	590	595	635	660	740
	UDA 250	(mm)	505	505	510	510	550	550	555	595	635	700
	UDA 160	(mm)	485	485	490	490	530	530	535	580	600	680
	UDA 80	(mm)	485	485	490	490	530	530	535	580	600	680
	UDA 40	(mm)	485	485	490	490	530	530	535	580	600	680

Inlet pressure-ranges							
	(barg)	0,2 - 0,6	0,5 - 1,2	0,8 - 2,5	2 - 5	4,5 - 10	8 - 16
P-Actuator UDA	(cm²)	UDA 400	UDA 250	UDA 160	UDA 80	UDA 40	
PN-max. (P-Actuator)	(barg)	1,6	2,5	6	10	20	
Spring end-No.		04	04	07	07	07	10

Pressure-temperature-ratings			Intermediate values for max. permissible operational pressures can be determined by linear interpolation of the given temperature / pressure chart.						
acc. to DIN EN 1092-2			-60°C to <-10°C*	-10°C to 120°C	150°C	200°C	250°C	300°C	350°C
EN-JL1040	PN16	(bar)	--	16	14,4	12,8	11,2	9,6	--
EN-JS1049	PN16	(bar)	on request	16	15,5	14,7	13,9	12,8	11,2
EN-JS1049	PN25	(bar)	on request	25	24,3	23	21,8	20	17,5
acc. to manufacturers standard			-60°C to <-10°C*	-10°C to 120°C	150°C	200°C	250°C	300°C	350°C
1.0619+N	PN25	(bar)	18,7	25	23,9	22	20	17,2	16
1.0619+N	PN40	(bar)	30	40	38,1	35	32	28	25,7
acc. to DIN EN 1092-1			-60°C to <-10°C*	-10°C to 120°C	150°C	200°C	250°C	300°C	350°C
1.4581	PN16	(bar)	8	16	15,6	14,9	14,1	13,3	12,8
1.4581	PN40	(bar)	20	40	39,2	37,3	35,4	33,3	32,1

* Studs and nuts made of A4-70 (at temperatures below -10°C)



Actuator / Special designs

Diaphragm-Actuator UDA 40 - UDA 400

- Rolling diaphragm
- Connection through a central thread
- Spindle connection with a fast coupling
- Delivered with a flow restrictor and screw joint

Material (Diaphragm):

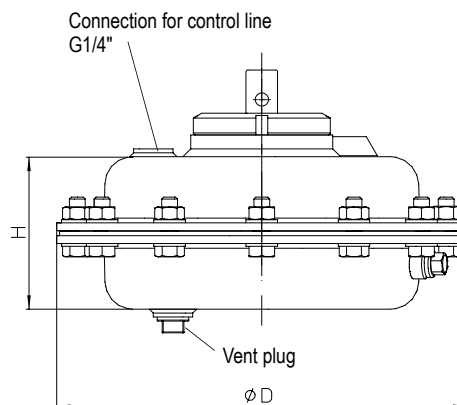
EPDM -40°C to +110°C

NBR -40°C to +100°C

Selection of possible applications:

- Neutral gases, Vapours and liquids
(only fluids of group II acc. to Pressure Equipment Directive 2014/68/EU)

Pneumatic Actuator		UDA 400	UDA 250	UDA 160	UDA 80	UDA 40
ØD	(mm)	300	250	210	170	140
H	(mm)	135	90	80	75	75
Weight	(kg)	13,4	8,1	5,1	3,7	2,9



Water seal pot

(for media temperatures higher than the allowed diaphragm temperature)

- Delivered with a funnel

Material:

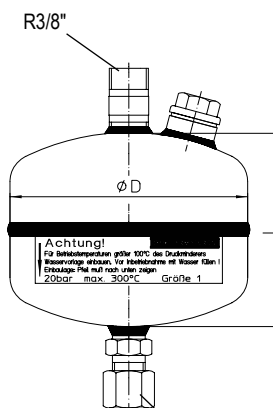
Standard design: P265 GH, 1.0425

Stainless steel design: X6CrNiMoTi17-12-2, 1.4571

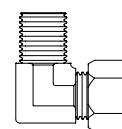
Selection of possible applications:

- Steam
- Hot water
- Neutral liquids

P-Actuator		UDA 400	UDA 250	UDA 160	UDA 80	UDA 40
Size		2		1		
ØD	(mm)	140		102		
L	(mm)	110		83		
V	(dm³)	1,2		0,6		



Weld screw
(e.g. ERMETO AS 10 - PL)



screw joint R1/4"
(e.g. ERMETO WE10-LLR)



Flow restrictor
G1/4" / G1/4"



Flow divider for noise reduction



Plug with PTFE soft sealing
(max. 200°C, only for standard Kvs-values)

Please indicate when ordering:

- | | |
|--------------------|--------------------------------|
| - Figure-No. | - Kvs-value |
| - Nominal diameter | - Pressure range |
| - Nominal pressure | - Actuator |
| - Body material | - Special design / accessories |
| - Plug version | |

Example:

Figure 35.705, Nominal diameter DN100, Nominal pressure PN40, Body material 1.0619+N, metal seat, Kvs 125, 0,8 - 2,5 bar, ARI-UDA 160 with NBR-Membrane, Water seal pot size 1.