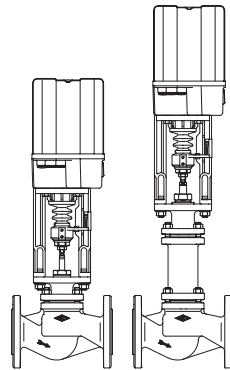


Stop valve - straight through with flanges  
DN 15 - 250

**ARI-STEVI® 405 / 460**

**Electric actuator ARI-PREMIO**

- Enclosure IP 65
- 2 torque switches
- Handwheel
- Additional devices available, e.g. potentiometer



Page 2

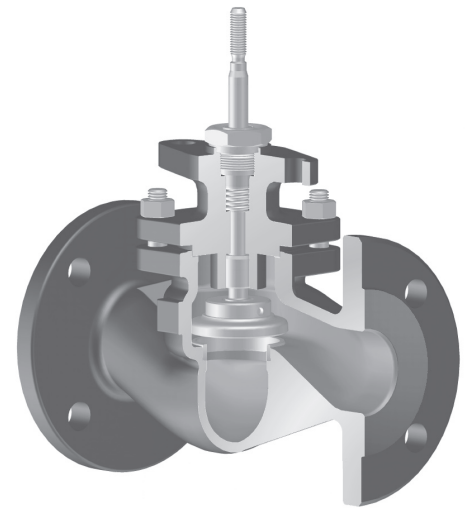
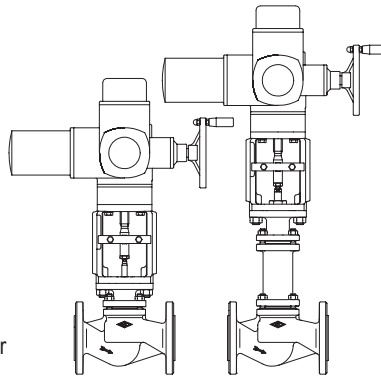


Fig. 405

**ARI-STEVI® 405 / 460**

**Electric actuator AUMA SA**

- Electric multiturn actuator capable of high closing pressures
- Enclosure IP 67
- 2 torque switches
- 2 travel switches
- Handwheel
- Overheating protection for motor as standard
- Additional devices available, e.g. potentiometer
- Explosion proof version available



Page 10

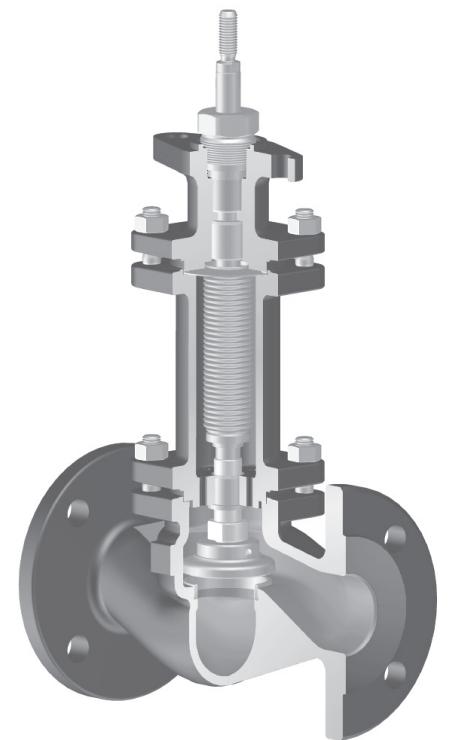
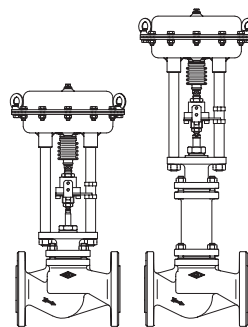


Fig. 460

**ARI-STEVI® 405 / 460**

**Pneumatic actuator ARI-DP**

- Reversible pneumatic actuator
- Actuator with rolling diaphragm
- Air supply pressure max. 6 bar
- Stem protection by bellow
- Maintenance-free O-ring sealing
- Assembly of additional devices acc. to DIN IEC 60534-6



Page 18

**Features:**

- Compact design
- Precision guided stem
- Burnished stem
- Spring loaded PTFE-V ring packing unit
- Two-ply bellows seal as standard
- Travel indicator

Stop valve straight through with electric actuator ARI-PREMIO (DN 15-150)

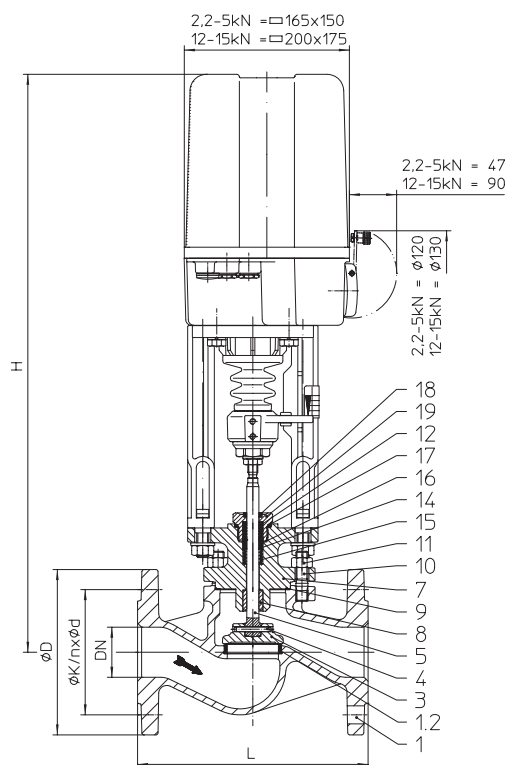


Fig. 405

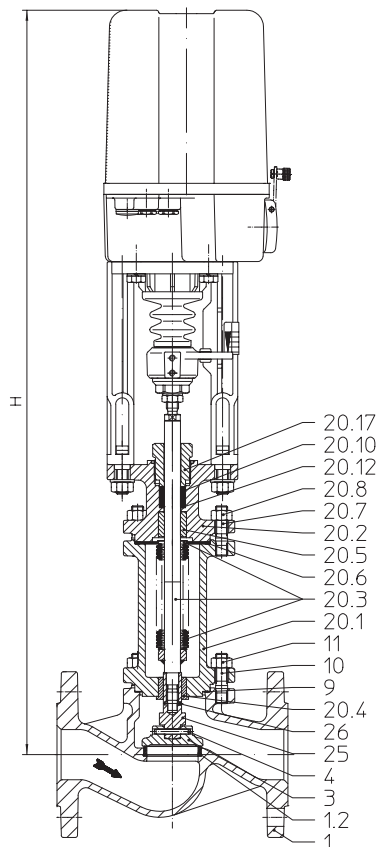


Fig. 460

Figure	Nominal pressure	Material	Nominal diameter
12.405 / 12.460	PN16	EN-JL1040	DN15-150
22.405 / 22.460	PN16	EN-JS1049	DN15-150
23.405 / 23.460	PN25	EN-JS1049	DN15-150
34.405 / 34.460	PN25	1.0619+N	DN15-150
35.405 / 35.460	PN40	1.0619+N	DN15-150
55.405 / 55.460	PN40	1.4408	DN15-150

Other materials and versions on request.

**Stem sealing**

Fig. 405: • PTFE-V-ring unit -10°C up to +220°C

• PTFE-packing -10°C up to +250°C

• Pure graphite-packing -10°C up to +450°C

Fig. 460: • Stainless steel bellows seal with safety stuffing box -60°C up to +450°C

**Plug design**

standard: • Isolation plug

optional: • Isolation plug with PTFE soft seat (max. 200°C)

**Shut off class (seat / plug leakage classes)**

• Metal seat - Leakage class 1 acc. to DIN 3230 T3 / B0

• Soft seat - Leakage class 1 acc. to DIN 3230 T3 / B0

Closing pressures refer to page 4.

Technical data for actuator refer to data sheet.

**Selection of possible applications**

Industrial installations, processing technology, plant manufacturing, etc.  
(other applications on request)

**Selection of possible flow media**

Fig. 405: Cooling water, cooling brine, warm water, hot water, steam, gas, etc.

Fig. 460: Refrigerant, cooling water, warm water, hot water, thermal oil, steam, gas, etc.  
(other flow media on request)

**Dimensions and weights**

		DN	15	20	25	32	40	50	65	80	100	125	150	
L		(mm)	130	150	160	180	200	230	290	310	350	400	480	
Fig. 405	H	(mm)	556	556	564	565	571	577	590	606	625	685	--	
	ARI-PREMIO 2,2 kN	PN16	(kg)	9	9,7	10,6	12,2	14,1	17	22,1	--	--	--	--
		PN25/40	(kg)	9,8	10,6	11,9	13,7	16,2	18,9	26,1	--	--	--	--
	ARI-PREMIO 5 kN	PN16	(kg)	10,1	10,8	11,7	13,3	15,2	18,1	23,2	28,9	39	62	--
		PN25/40	(kg)	10,9	11,7	13	14,8	17,3	20	27,2	33,4	46	74	--
	H		(mm)	--	--	--	--	721	727	740	756	775	833	893
	ARI-PREMIO 12 kN	PN16	(kg)	--	--	--	--	19,2	22,1	27,2	32,9	43	66	87
		PN25/40	(kg)	--	--	--	--	21,3	24	31,2	37,4	50	78	109
Fig. 460	H	(mm)	741	741	749	749	740	742	826	838	854	913	--	
	ARI-PREMIO 2,2 kN	PN16	(kg)	13,4	13,4	14,4	16,9	19,4	21,9	24,9	--	--	--	--
		PN25/40	(kg)	15,4	16,9	19,4	22,4	28,4	30,9	37,9	--	--	--	--
	ARI-PREMIO 5 kN	PN16	(kg)	14,5	14,5	15,5	18	20,5	23	26	37	53	69	--
		PN25/40	(kg)	16,5	18	20,5	23,5	29,5	32	39	49	66	81	--
	H		(mm)	--	--	--	--	890	892	976	988	1004	1061	1219
	ARI-PREMIO 12 kN	PN16	(kg)	--	--	--	--	24,5	27	30	41	57	73	104
		PN25/40	(kg)	--	--	--	--	33,5	36	43	53	70	85	129

Standard-flange dimensions refer to page 27.

Face-to-face dimension FTF series 1 according to DIN EN 558-1

**Parts**

Pos.	Description	Fig. 12.405 Fig. 12.460	Fig. 22.405 / Fig. 23.405 Fig. 22.460 / Fig. 23.460	Fig. 34.405 / Fig. 35.405 Fig. 34.460 / Fig. 35.460	Fig. 55.405 Fig. 55.460	
1	Body	EN-GJL-250 , EN-JL1040	EN-GJS-400-18U-LT, EN-JS1049	GP240GH+N, 1.0619+N	GX5CrNiMo19-11-2, 1.4408	
1.2	Seat ring	X20Cr13+QT, 1.4021+QT			X20Cr13+QT, 1.4021+QT >DN50: G19 9 Nb Si, 1.4551	--
3	Plug *	X20Cr13+QT, 1.4021+QT			X6CrNiMoTi17-12-2, 1.4571	
4	Straight pin *	46S20+C, 1.0727+C				
5	Stem *	X20Cr13+QT, 1.4021+QT			X6CrNiMoTi17-12-2, 1.4571	
7	Mounting bonnet	EN-GJS-400-18U-LT, EN-JS1049		GP240GH+N, 1.0619+N	GX5CrNiMo19-11-2, 1.4408	
8	Guide bushing	X20Cr13+QT, 1.4021+QT (hardened)			X6CrNiMoTi17-12-2, 1.4571	
9	Gasket *	Pure graphite (CrNi laminated with graphite)				
10	Studs	25CrMo4, 1.7218			A4 - 70	
11	Hexagon nuts	C35E, 1.1181			A4	
12	V-ring unit *	PTFE				
14	Washer *	X5CrNi18-10, 1.4301				
15	Spring *	X12CrNi17-7, 1.4310				
16	Bushing *	PTFE (reinforced)				
17	Sealing ring *	Cu / Soft iron			X6CrNiMoTi17-12-2, 1.4571	
18	Scraper *	PTFE (reinforced)				
19	Screw joint *	X8CrNiS18-9, 1.4305				
20.1	Bellows housing	EN-GJS-400-18U-LT, EN-JS1049		GP240GH+N, 1.0619+N	GX5CrNiMo19-11-2, 1.4408	
20.2	Mounting bonnet	EN-GJS-400-18U-LT, EN-JS1049		GP240GH+N, 1.0619+N	GX5CrNiMo19-11-2, 1.4408	
20.3	Stem- / Bellows unit *	X20Cr13+QT, 1.4021+QT / X6CrNiTi18-10, 1.4541			X6CrNiMoTi17-12-2, 1.4571	
20.4	Guide bushing	X20Cr13+QT, 1.4021+QT (hardened)			X6CrNiMoTi17-12-2, 1.4571	
20.5	Guide bushing	X20Cr13+QT, 1.4021+QT (hardened)			X6CrNiMoTi17-12-2, 1.4571	
20.6	Gasket *	Pure graphite (CrNi laminated with graphite)				
20.7	Studs	25CrMo4, 1.7218			A4 - 70	
20.8	Hexagon nuts	C35E, 1.1181			A4	
20.9	Straight pin (DN125-150)	46S20+C, 1.0727+C				
20.10	Packing ring *	Pure graphite				
20.12	Washer *	X5CrNi18-10, 1.4301				
20.17	Screw joint *	X8CrNiS18-9, 1.4305				
25	Stem adapter *	X20Cr13+QT, 1.4021+QT			X6CrNiMoTi17-12-2, 1.4571	
26	Straight pin *	X12CrNi17-7, 1.4310				

\* Spare parts

Information / restriction of technical rules need to be observed!

ARI-Valves of EN-JL1040 are not allowed to be operated in systems acc. to TRD 110.

A production allowance acc. to TRB 801 No. 45 exists (acc. to TRB 801 No. 45 EN-JL1040 is not allowed.)

The engineer, designing a system or a plant, is responsible for the selection of the correct valve.

max. permissible closing pressures on flow-to-open P2 = 0 (Observe regulations, refer to page 27.)

DN			15	20	25	32	40	50	65	80	100	125	150	
Kvs-value			4,2	7,4	12	19	31	47	77	120	188	288	410	
Travel (mm)			4	5	7	8	10	13	17	20	25	32	38	
Actuator <sup>1)</sup> ARI-PREMIO 2,2 kN	Closing pressure (bar)	I.	36,2	36,2	21,6	14,8	7,1	3,5	1,1					
		II.	33,3	33,3	19,7	13,4	6,2	3						
		III.	23,6	23,6	18,1	12,2	5	2,2						
	Operating time <sup>2)</sup> (s) (Op. Speed 0,38 mm/s)		11	13	18	21	26	34	45					
Actuator <sup>1)</sup> ARI-PREMIO 5 kN	Closing pressure (bar)	I.	40	40	40	40	26,2	15,9	8,6	5,1	2,8	1,3		
		II.	40	40	40	40	25,4	15,4	8,2	4,8	2,6	1,2		
		III.	40	40	40	40	24,2	14,6	7,9	4,6	2,5	1,1		
	Operating time <sup>2)</sup> (s) (Op. Speed 0,38 mm/s)		11	13	18	21	26	34	45	53	66	84		
Operating time <sup>2)</sup> (s) (Op. Speed 1 mm/s)		4	5	7	8	10	13	17	20	25	32			
Actuator <sup>1)</sup> ARI-PREMIO 12 kN	Closing pressure (bar)	I.					40	40	27,5	17,7	11	6,6	4,3	
		II.					40	40	27,1	17,4	10,8	6,5	4,2	
		III.					40	40	26,8	17,2	10,7	6,4	4,1	
	Operating time <sup>2)</sup> (s) (Op. Speed 0,79 mm/s)						13	16	22	25	32	41	48	
Actuator <sup>1)</sup> ARI-PREMIO 15 kN	Closing pressure (bar)	I.							35,6	23,1	14,5	8,9	5,9	
		II.							35,2	22,8	14,3	8,7	5,8	
		III.								34,9	22,6	14,2	8,7	5,7
	Operating time <sup>2)</sup> (s) (Op. Speed 0,38 mm/s)								45	53	66	84	100	
I. Fig. 405: PTFE-V-ring unit;			II. Fig. 405: PTFE- / pure graphite-packing;						III. Fig. 460: Bellows seal					

<sup>1)</sup> Motor voltage: 230V 50Hz  
 Other voltages: 24V 50/60Hz; 115V 50/60Hz; 230V 60Hz  
 Technical data for actuator refer to data sheet ARI-PREMIO.

<sup>2)</sup> Indicated operating times with 50Hz.



Stop valve straight through with electric actuator ARI-PREMIO (DN 200-250)

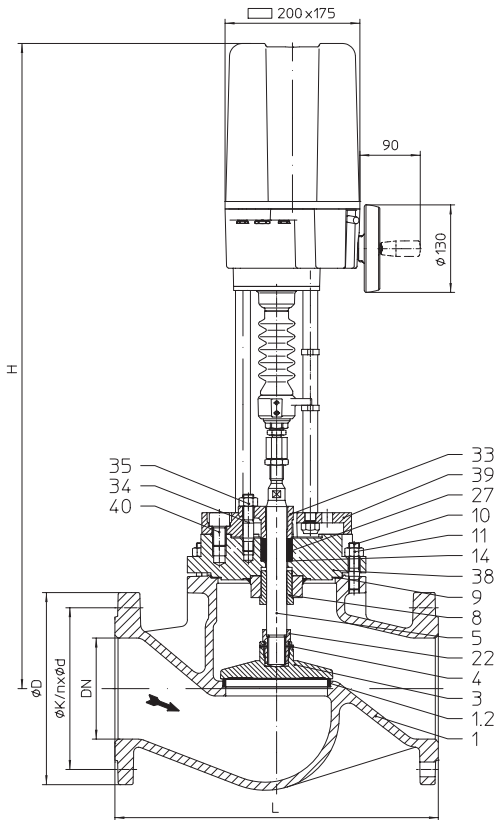


Fig. 405

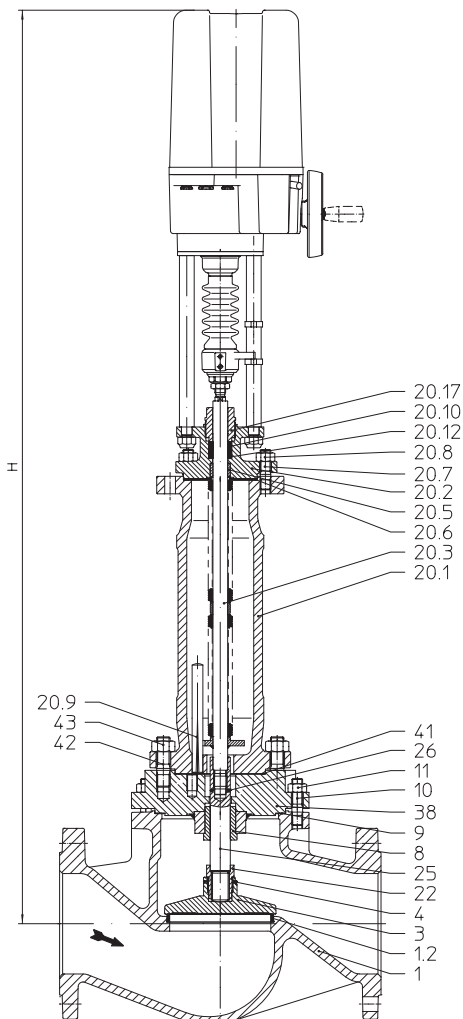


Fig. 460

Figure	Nominal pressure	Material	Nominal diameter
12.405 / 12.460	PN16	EN-JL1040	DN200-250
22.405 / 22.460	PN16	EN-JS1049	DN200-250
34.405 / 34.460	PN25	1.0619+N	DN200-250
35.405 / 35.460	PN40	1.0619+N	DN200-250

Other materials and versions on request.

**Stem sealing**

Fig. 405: • PTFE-packing -10°C up to +250°C

• Pure graphite-packing -10°C up to +450°C

Fig. 460: • Stainless steel bellows seal with safety stuffing box -60°C up to +450°C

**Plug design**

standard: • Isolation plug

optional: • Isolation plug with PTFE soft seat (max. 200°C)

**Shut off class (seat / plug leakage classes)**

• Metal seat - Leakage class 1 acc. to DIN 3230 T3 / B0

• Soft seat - Leakage class 1 acc. to DIN 3230 T3 / B0

Closing pressures refer to page 8.

Technical data for actuator refer to data sheet.

**Selection of possible applications**

Industrial installations, processing technology, plant manufacturing, etc.  
(other applications on request)

**Selection of possible flow media**

Fig. 405: Cooling water, cooling brine, warm water, hot water, steam, gas, etc.

Fig. 460: Refrigerant, cooling water, warm water, hot water, thermal oil, steam, gas, etc.

(other flow media on request)

**Dimensions and weights**

			DN	200	250
L			(mm)	600	730
Fig. 405	H		(mm)	982	1072
	ARI-PREMIO 12 kN	PN16	(kg)	142	214
	ARI-PREMIO 15 kN	PN25/40	(kg)	173	250
Fig. 460	H		(mm)	1418	1494
	ARI-PREMIO 12 kN	PN16	(kg)	150	230
	ARI-PREMIO 15 kN	PN25/40	(kg)	180	265

Standard-flange dimensions refer to page 27.

Face-to-face dimension FTF series 1 according to DIN EN 558-1

**Parts**

Pos.	Description	Fig. 12.405 Fig. 12.460	Fig. 22.405 Fig. 22.460	Fig. 34.405 / Fig. 35.405 Fig. 34.460 / Fig. 35.460
1	Body	EN-GJL-250 , EN-JL1040	EN-GJS-400-18U-LT, EN-JS1049	GP240GH+N, 1.0619+N
1.2	Seat ring	X20Cr13+QT, 1.4021+QT		X20Cr13+QT, 1.4021+QT >DN50: G19 9 Nb Si, 1.4551
3	Plug *	X20Cr13+QT, 1.4021+QT		
4	Straight pin *	46S20+C, 1.0727+C		
5	Stem *	X20Cr13+QT, 1.4021+QT		
8	Guide bushing	X20Cr13+QT, 1.4021+QT (hardened)		
9	Gasket *	Pure graphite (CrNi laminated with graphite)		
10	Studs	25CrMo4, 1.7218		
11	Hexagon nuts	C35E, 1.1181		
14	Washer *	X5CrNi18-10, 1.4301		
20.1	Bellows housing	EN-GJS-400-18U-LT, EN-JS1049		GP240GH+N, 1.0619+N
20.2	Mounting bonnet	EN-GJS-400-18U-LT, EN-JS1049		GP240GH+N, 1.0619+N
20.3	Stem- / Bellows unit *	X20Cr13+QT, 1.4021+QT / X6CrNiTi18-10, 1.4541		
20.5	Guide bushing	X20Cr13+QT, 1.4021+QT (hardened)		
20.6	Gasket *	Pure graphite (CrNi laminated with graphite)		
20.7	Studs	25CrMo4, 1.7218		
20.8	Hexagon nuts	C35E, 1.1181		
20.9	Straight pin	46S20+C, 1.0727+C		
20.10	Packing ring *	Pure graphite		
20.12	Washer *	X5CrNi18-10, 1.4301		
20.17	Screw joint *	X8CrNiS18-9, 1.4305		
22	Screw joint *	X14CrMoS17+QT, 1.4104+QT		
25	Stem adapter *	X20Cr13+QT, 1.4021+QT		
26	Straight pin *	X12CrNi17-7, 1.4310		
27	Packing ring *	PTFE or pure graphite		
33	Packing box flange	EN-GJS-400-18U-LT, EN-JS1049		
34	Studs	25CrMo4, 1.7218		
35	Hexagon nut	C35E, 1.1181		
38	Stuffing box housing	EN-GJS-400-18U-LT, EN-JS1049		GP240GH+N, 1.0619+N
39	Adapter flange	EN-GJS-400-18U-LT, EN-JS1049		
40	Hexagon socket head screw	8.8 - A2B		
41	Gasket *	Pure graphite		
42	Studs	25CrMo4, 1.7218		
43	Hexagon nut	C35E, 1.1181		

\* Spare parts

Information / restriction of technical rules need to be observed!

ARI-Valves of EN-JL1040 are not allowed to be operated in systems acc. to TRD 110.

A production allowance acc. to TRB 801 No. 45 exists (acc. to TRB 801 No. 45 EN-JL1040 is not allowed.)

The engineer, designing a system or a plant, is responsible for the selection of the correct valve.

max. permissible closing pressures on flow-to-open P2 = 0 (Observe regulations, refer to page 27.)

DN			200	250
Kvs-value			725	1145
Travel (mm)			50	65
Actuator <sup>1)</sup> <b>ARI-PREMIO</b> <b>12 kN</b>	Closing pressure (bar)	II.	2	1,1
		III.	2	1,1
	Operating time <sup>2)</sup> (s) (Op. Speed 0,79 mm/s)		63	82
Actuator <sup>1)</sup> <b>ARI-PREMIO</b> <b>15 kN</b>	Closing pressure (bar)	II.	2,9	1,7
		III.	2,9	1,7
	Operating time <sup>2)</sup> (s) (Op. Speed 0,38 mm/s)		132	171
II. Fig. 405: PTFE- / pure graphite-packing;			III. Fig. 460: Bellows seal	

<sup>1)</sup> Motor voltage: 230V 50Hz  
Other voltages: 24V 50/60Hz; 115V 50/60Hz; 230V 60Hz  
Technical data for actuator refer to data sheet ARI-PREMIO.

<sup>2)</sup> Indicated operating times with 50Hz.





Stop valve straight through with electric actuator AUMA SA (DN 15-150)

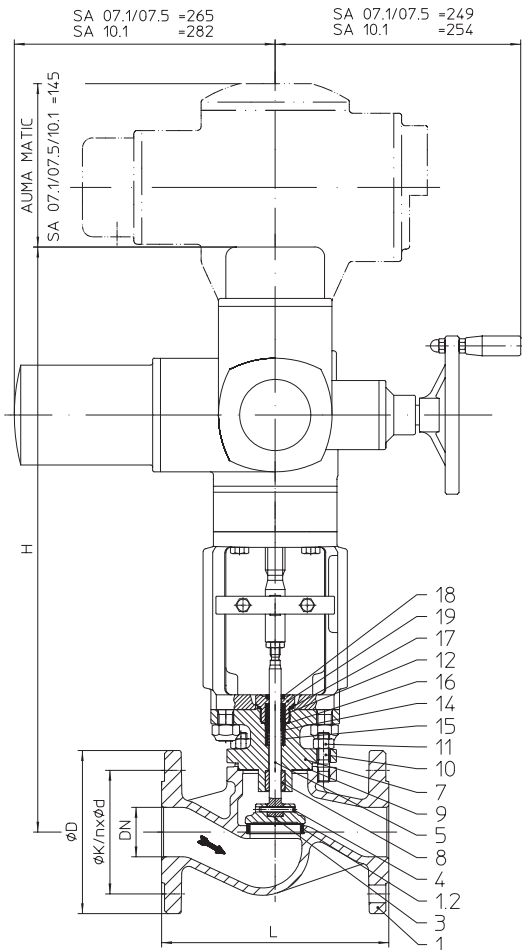


Fig. 405

Figure	Nominal pressure	Material	Nominal diameter
12.405 / 12.460	PN16	EN-JL1040	DN15-150
22.405 / 22.460	PN16	EN-JS1049	DN15-150
23.405 / 23.460	PN25	EN-JS1049	DN15-150
34.405 / 34.460	PN25	1.0619+N	DN15-150
35.405 / 35.460	PN40	1.0619+N	DN15-150
55.405 / 55.460	PN40	1.4408	DN15-150

Other materials and versions on request.

**Stem sealing**

- Fig. 405:
- PTFE-V-ring unit -10°C up to +220°C
  - PTFE-packing -10°C up to +250°C
  - Pure graphite-packing -10°C up to +450°C

- Fig. 460:
- Stainless steel bellows seal with safety stuffing box -60°C up to +450°C

**Plug design**

- standard:
- Isolation plug
- optional:
- Isolation plug with PTFE soft seat (max. 200°C)

**Shut off class (seat / plug leakage classes)**

- Metal seat - Leakage class 1 acc. to DIN 3230 T3 / B0
- Soft seat - Leakage class 1 acc. to DIN 3230 T3 / B0

Closing pressures refer to page 12.

Technical data for actuator refer to data sheet.

**Selection of possible applications**

Industrial installations, processing technology, plant manufacturing, etc.  
(other applications on request)

**Selection of possible flow media**

Fig. 405: Cooling water, cooling brine, warm water, hot water, steam, gas, etc.

Fig. 460: Refrigerant, cooling water, warm water, hot water, thermal oil, steam, gas, etc.  
(other flow media on request)

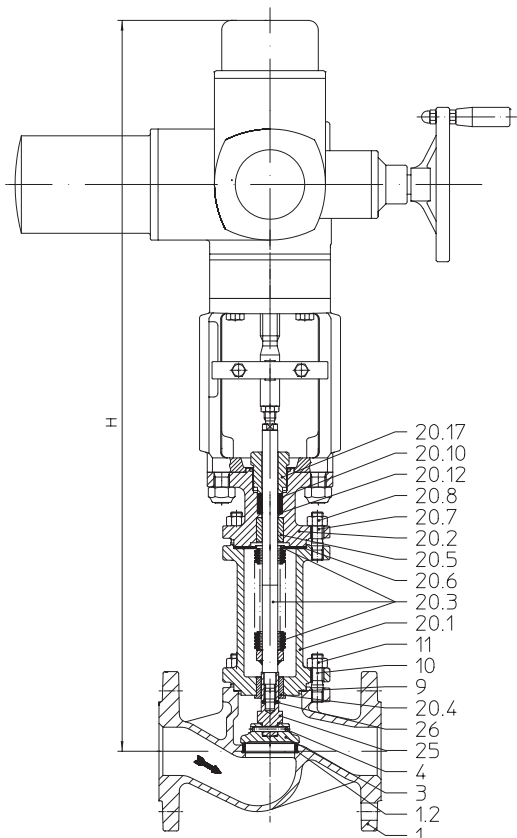


Fig. 460

**Dimensions and weights**

		DN	15	20	25	32	40	50	65	80	100	125	150	
<b>L</b>		(mm)	130	150	160	180	200	230	290	310	350	400	480	
<b>Fig. 405</b>	<b>H</b>	(mm)	596	596	604	605	611	617	630	646	665	703	763	
	<b>AUMA SAR 07.1</b>	<b>PN16</b>	(kg)	29,9	30,6	31,5	33,1	35	37,9	44,5	50,2	60	83	104
	<b>AUMA SAR 07.5</b>	<b>PN25/40</b>	(kg)	30,7	31,5	32,8	34,6	37,1	39,8	48,5	54,7	68	95	126
	<b>H</b>		(mm)	--	--	--	--	--	--	--	658	677	715	775
	<b>AUMA SAR 10.1</b>	<b>PN16</b>	(kg)	--	--	--	--	--	--	--	54,7	65	87	108
		<b>PN25/40</b>	(kg)	--	--	--	--	--	--	59,2	72	99	130	
<b>Fig. 460</b>	<b>H</b>	(mm)	781	781	789	789	780	782	866	878	894	931	1089	
	<b>AUMA SAR 07.1</b>	<b>PN16</b>	(kg)	34,3	34,3	35,3	37,8	40,3	42,8	47,3	58,3	74	90	121
	<b>AUMA SAR 07.5</b>	<b>PN25/40</b>	(kg)	36,3	37,8	40,3	43,3	39,3	51,8	60,3	70,3	87	102	146
	<b>H</b>		(mm)	--	--	--	--	--	--	--	--	--	1101	
	<b>AUMA SAR 10.1</b>	<b>PN16</b>	(kg)	--	--	--	--	--	--	--	--	--	125	
		<b>PN25/40</b>	(kg)	--	--	--	--	--	--	--	--	--	150	

Standard-flange dimensions refer to page 27.

(For version with AUMA SA Ex other heights.)

Face-to-face dimension FTF series 1 according to DIN EN 558-1

**Parts**

Pos.	Description	Fig. 12.405 Fig. 12.460	Fig. 22.405 / Fig. 23.405 Fig. 22.460 / Fig. 23.460	Fig. 34.405 / Fig. 35.405 Fig. 34.460 / Fig. 35.460	Fig. 55.405 Fig. 55.460
1	Body	EN-GJL-250 , EN-JL1040	EN-GJS-400-18U-LT, EN-JS1049	GP240GH+N, 1.0619+N	GX5CrNiMo19-11-2, 1.4408
1.2	Seat ring	X20Cr13+QT, 1.4021+QT			--
3	Plug *	X20Cr13+QT, 1.4021+QT			X6CrNiMoTi17-12-2, 1.4571
4	Straight pin *	46S20+C, 1.0727+C			
5	Stem *	X20Cr13+QT, 1.4021+QT			X6CrNiMoTi17-12-2, 1.4571
7	Mounting bonnet	EN-GJS-400-18U-LT, EN-JS1049		GP240GH+N, 1.0619+N	GX5CrNiMo19-11-2, 1.4408
8	Guide bushing	X20Cr13+QT, 1.4021+QT (hardened)			X6CrNiMoTi17-12-2, 1.4571
9	Gasket *	Pure graphite (CrNi laminated with graphite)			
10	Studs	25CrMo4, 1.7218			A4 - 70
11	Hexagon nuts	C35E, 1.1181			A4
12	V-ring unit *	PTFE			
14	Washer *	X5CrNi18-10, 1.4301			
15	Spring *	X12CrNi17-7, 1.4310			
16	Bushing *	PTFE (reinforced)			
17	Sealing ring *	Cu / Soft iron			X6CrNiMoTi17-12-2, 1.4571
18	Scraper *	PTFE (reinforced)			
19	Screw joint *	X8CrNiS18-9, 1.4305			
20.1	Bellows housing	EN-GJS-400-18U-LT, EN-JS1049		GP240GH+N, 1.0619+N	GX5CrNiMo19-11-2, 1.4408
20.2	Mounting bonnet	EN-GJS-400-18U-LT, EN-JS1049		GP240GH+N, 1.0619+N	GX5CrNiMo19-11-2, 1.4408
20.3	Stem- / Bellows unit *	X20Cr13+QT, 1.4021+QT / X6CrNiTi18-10, 1.4541			X6CrNiMoTi17-12-2, 1.4571
20.4	Guide bushing	X20Cr13+QT, 1.4021+QT (hardened)			X6CrNiMoTi17-12-2, 1.4571
20.5	Guide bushing	X20Cr13+QT, 1.4021+QT (hardened)			X6CrNiMoTi17-12-2, 1.4571
20.6	Gasket *	Pure graphite (CrNi laminated with graphite)			
20.7	Studs	25CrMo4, 1.7218			A4 - 70
20.8	Hexagon nuts	C35E, 1.1181			A4
20.9	Straight pin (DN125-150)	46S20+C, 1.0727+C			
20.10	Packing ring *	Pure graphite			
20.12	Washer *	X5CrNi18-10, 1.4301			
20.17	Screw joint *	X8CrNiS18-9, 1.4305			
25	Stem adapter *	X20Cr13+QT, 1.4021+QT			X6CrNiMoTi17-12-2, 1.4571
26	Straight pin *	X12CrNi17-7, 1.4310			

\* Spare parts

Information / restriction of technical rules need to be observed!

ARI-Valves of EN-JL1040 are not allowed to be operated in systems acc. to TRD 110.

A production allowance acc. to TRB 801 No. 45 exists (acc. to TRB 801 No. 45 EN-JL1040 is not allowed.)

The engineer, designing a system or a plant, is responsible for the selection of the correct valve.

max. permissible closing pressures on flow-to-open P2 = 0 (Observe regulations, refer to page 27.)

Fig. 405														
DN			15	20	25	32	40	50	65	80	100	125	150	
Kvs-value			4,2	7,4	12	19	31	47	77	120	188	288	410	
Travel (mm)			4	5	7	8	10	13	17	20	25	32	38	
Actuator <sup>1)</sup> <b>AUMA</b> <b>SA 07.1</b> Output drive Form A TR 20 x 4	Closing pressure (bar)	I./II.	40	40	40	40	40	40	39,7	25,8	16,3	10	6,7	
		Torque (Nm)		10	10	10	10	15	20	30	30	30	30	30
	Operating time <sup>2)</sup> (s)		11	13	19	21	27	35	16	19	23	30	36	
	Output drive (rpm)		5,6						16					
Actuator <sup>1)</sup> <b>AUMA</b> <b>SA 07.5</b> Output drive Form A TR 26 x 5	Closing pressure (bar)	I./II.							40	37,3	23,8	14,9	10,1	
		Torque (Nm)								45	60	60	60	60
	Operating time <sup>2)</sup> (s)									13	15	19	24	29
	Output drive (rpm)								16					
Actuator <sup>1)</sup> <b>AUMA</b> <b>SA 10.1</b> Output drive Form A TR 26 x 5	Closing pressure (bar)	I./II.								40	28,3	26,5	18,3	
		Torque (Nm)									70	70	100	100
	Operating time <sup>2)</sup> (s)										15	19	24	29
	Output drive (rpm)								16					

Fig. 460														
DN			15	20	25	32	40	50	65	80	100	125	150	
Kvs-value			4,2	7,4	12	19	31	47	77	120	188	288	410	
Travel (mm)			4	5	7	8	10	13	17	20	25	32	38	
Actuator <sup>1)</sup> <b>AUMA</b> <b>SA 07.1</b> Output drive Form A TR 20 x 4	Closing pressure (bar)	III.	40	40	40	40	40	40	39,5	25,6	16,1	9,9	6,6	
		Torque (Nm)		10	10	10	10	15	20	30	30	30	30	30
	Operating time <sup>2)</sup> (s)		11	13	19	21	27	32	16	19	23	30	36	
	Output drive (rpm)		5,6						16					
Actuator <sup>1)</sup> <b>AUMA</b> <b>SA 07.5</b> Output drive Form A TR 26 x 5	Closing pressure (bar)	III.							40	26,7	16,9	10,4	10	
		Torque (Nm)								45	45	45	45	60
	Operating time <sup>2)</sup> (s)									13	15	19	24	29
	Output drive (rpm)								16					
Actuator <sup>1)</sup> <b>AUMA</b> <b>SA 10.1</b> Output drive Form A TR 26 x 5	Closing pressure (bar)	III.											18,2	
		Torque (Nm)												100
	Operating time <sup>2)</sup> (s)												29	
	Output drive (rpm)								16					
<b>I. Fig. 405: PTFE-V-ring unit;</b>			<b>II. Fig. 405: PTFE- / pure graphite-packing;</b>						<b>III. Fig. 460: Bellows seal</b>					

Higher closing pressures on request

<sup>1)</sup> Motor voltage: 400V 50Hz 3~  
 (Other voltages on request)  
 Technical data for actuator refer to price list.

<sup>2)</sup> Indicated operating times with 50Hz.



Stop valve straight through with electric actuator AUMA SA (DN 125v-150v / DN 200-250)

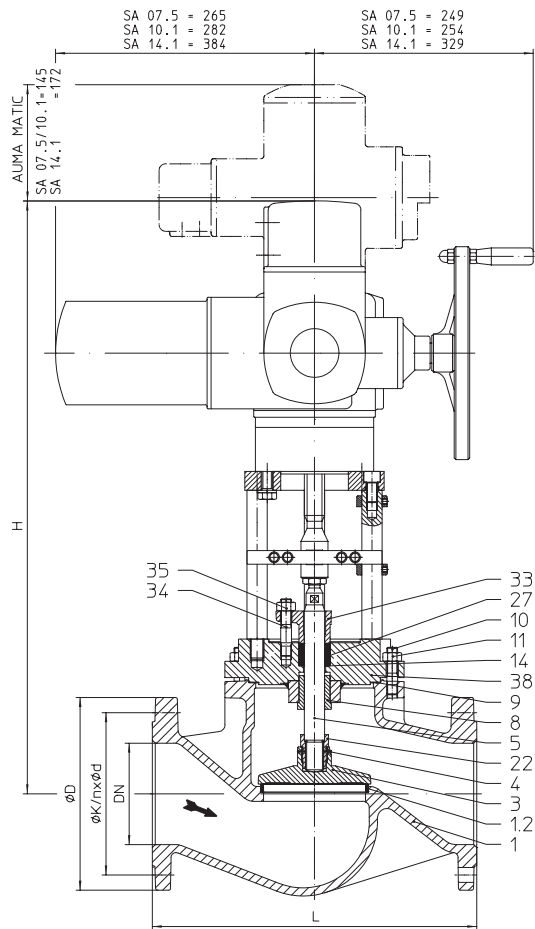


Fig. 405

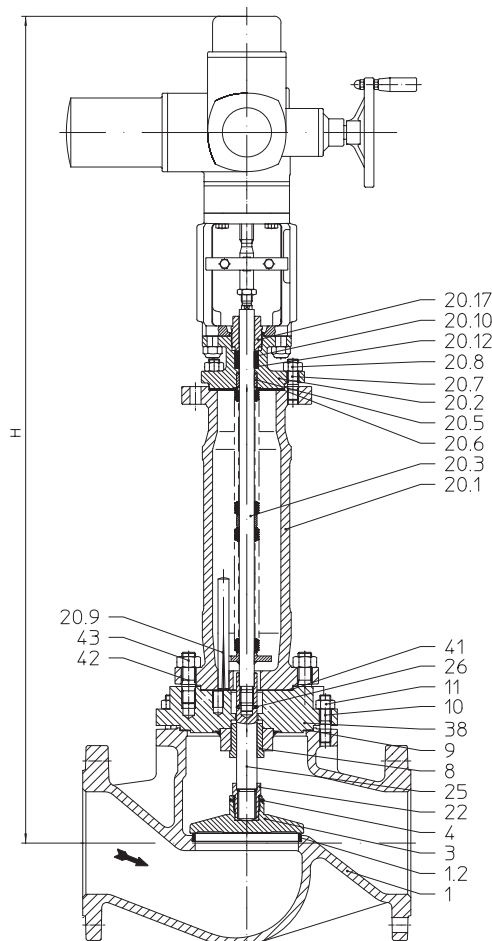


Fig. 460

Figure	Nominal pressure	Material	Nominal diameter
12.405 / 12.460	PN16	EN-JL1040	DN125v-150v DN200-250
22.405 / 22.460	PN16	EN-JS1049	DN125v-150v DN200-250
34.405 / 34.460	PN25	1.0619+N	DN125v-150v DN200-250
35.405 / 35.460	PN40	1.0619+N	DN125v-150v DN200-250

Other materials and versions on request.

**Stem sealing**  
 Fig. 405: • PTFE-packing -10°C up to +250°C  
 • Pure graphite-packing -10°C up to +450°C  
 Fig. 460: • Stainless steel bellows seal with safety stuffing box -60°C up to +450°C

**Plug design**  
 standard: • Isolation plug  
 optional: • Isolation plug with PTFE soft seat (max. 200°C)

**Shut off class (seat / plug leakage classes)**  
 • Metal seat - Leakage class 1 acc. to DIN 3230 T3 / B0  
 • Soft seat - Leakage class 1 acc. to DIN 3230 T3 / B0

Closing pressures refer to page 16.

Technical data for actuator refer to data sheet.

**Selection of possible applications**

Industrial installations, processing technology, plant manufacturing, etc.  
(other applications on request)

**Selection of possible flow media**

Fig. 405: Cooling water, cooling brine, warm water, hot water, steam, gas, etc.  
 Fig. 460: Refrigerant, cooling water, warm water, hot water, thermal oil, steam, gas, etc.  
 (other flow media on request)

**Dimensions and weights**

		DN	125v	150v	200	250	
L		(mm)	400	480	600	730	
Fig. 405	H	(mm)	--	--	844	904	
	AUMA SAR 07.5	PN16	(kg)	--	--	163	235
		PN25/40	(kg)	--	--	194	271
	H	(mm)	--	--	856	916	
	AUMA SAR 10.1	PN16	(kg)	--	--	167	239
		PN25/40	(kg)	--	--	198	275
	H	(mm)	846	877	931	991	
	AUMA SAR 14.1	PN16	(kg)	110	127	197	269
PN25/40		(kg)	141	181	228	305	
Fig. 460	H	(mm)	--	--	1288	1349	
	AUMA SAR 07.5	PN16	(kg)	--	--	167	247
		PN25/40	(kg)	--	--	197	282
	H	(mm)	--	--	1300	1361	
	AUMA SAR 10.1	PN16	(kg)	--	--	171	251
		PN25/40	(kg)	--	--	201	286

Standard-flange dimensions refer to page 27.

(For version with AUMA SA Ex other heights.)

Face-to-face dimension FTF series 1 according to DIN EN 558-1

**Parts**

Pos.	Description	Fig. 12.405 Fig. 12.460	Fig. 22.405 Fig. 22.460	Fig. 34.405 / Fig. 35.405 Fig. 34.460 / Fig. 35.460
1	Body	EN-GJL-250 , EN-JL1040	EN-GJS-400-18U-LT, EN-JS1049	GP240GH+N, 1.0619+N
1.2	Seat ring	X20Cr13+QT, 1.4021+QT		X20Cr13+QT, 1.4021+QT >DN50: G19 9 Nb Si, 1.4551
3	Plug *	X20Cr13+QT, 1.4021+QT		
4	Straight pin *	46S20+C, 1.0727+C		
5	Stem *	X20Cr13+QT, 1.4021+QT		
8	Guide bushing	X20Cr13+QT, 1.4021+QT (hardened)		
9	Gasket *	Pure graphite (CrNi laminated with graphite)		
10	Studs	25CrMo4, 1.7218		
11	Hexagon nuts	C35E, 1.1181		
14	Washer *	X5CrNi18-10, 1.4301		
20.1	Bellows housing	EN-GJS-400-18U-LT, EN-JS1049		GP240GH+N, 1.0619+N
20.2	Mounting bonnet	EN-GJS-400-18U-LT, EN-JS1049		GP240GH+N, 1.0619+N
20.3	Stem- / Bellows unit *	X20Cr13+QT, 1.4021+QT / X6CrNiTi18-10, 1.4541		
20.5	Guide bushing	X20Cr13+QT, 1.4021+QT (hardened)		
20.6	Gasket *	Pure graphite (CrNi laminated with graphite)		
20.7	Studs	25CrMo4, 1.7218		
20.8	Hexagon nuts	C35E, 1.1181		
20.9	Straight pin	46S20+C, 1.0727+C		
20.10	Packing ring *	Pure graphite		
20.12	Washer *	X5CrNi18-10, 1.4301		
20.17	Screw joint *	X8CrNiS18-9, 1.4305		
22	Screw joint *	X14CrMoS17+QT, 1.4104+QT		
25	Stem adapter *	X20Cr13+QT, 1.4021+QT		
26	Straight pin *	X12CrNi17-7, 1.4310		
27	Packing ring *	PTFE or Pure graphite		
33	Packing box flange	EN-GJS-400-18U-LT, EN-JS1049		
34	Studs	25CrMo4, 1.7218		
35	Hexagon nut	C35E, 1.1181		
38	Stuffing box housing	EN-GJS-400-18U-LT, EN-JS1049		GP240GH+N, 1.0619+N
39	Adapter flange	EN-GJS-400-18U-LT, EN-JS1049		
40	Hexagon socket head screw	8.8 - A2B		
41	Gasket *	Pure graphite		
42	Studs	25CrMo4, 1.7218		
43	Hexagon nut	C35E, 1.1181		

\* Spare parts

Information / restriction of technical rules need to be observed!

ARI-Valves of EN-JL1040 are not allowed to be operated in systems acc. to TRD 110.

A production allowance acc. to TRB 801 No. 45 exists (acc. to TRB 801 No. 45 EN-JL1040 is not allowed.)

The engineer, designing a system or a plant, is responsible for the selection of the correct valve.

max. permissible closing pressures on flow-to-open P2 = 0 (Observe regulations, refer to page 27.)

Fig. 405						
DN			125v	150v	200	250
Kvs-value			288	410	725	1145
Travel (mm)			32	38	50	65
Actuator <sup>1)</sup> AUMA SA 07.5 Output drive Form A TR 26 x 5	Closing pressure (bar)	II.			5,3	3,3
	Torque (Nm)				60	60
	Operating time <sup>2)</sup> (s)				38	49
	Output drive (rpm)				16	
Actuator <sup>1)</sup> AUMA SA 10.1 Output drive Form A TR 26 x 5	Closing pressure (bar)	II.			12,3	7,9
	Torque (Nm)				120	120
	Operating time <sup>2)</sup> (s)				38	49
	Output drive (rpm)				16	
Actuator <sup>1)</sup> AUMA SA 14.1 Output drive Form A TR 30 x 6	Closing pressure (bar)	II.	40	39,3	22	14,2
	Torque (Nm)		200	250	250	250
	Operating time <sup>2)</sup> (s)		20	24	31	41
	Output drive (rpm)		16			

Fig. 460						
DN			125v	150v	200	250
Kvs-value			--	--	725	1145
Travel (mm)			--	--	50	65
Actuator <sup>1)</sup> AUMA SA 07.5 Output drive Form A TR 26 x 5	Closing pressure (bar)	III.			5,3	3,3
	Torque (Nm)				60	60
	Operating time <sup>2)</sup> (s)				38	49
	Output drive (rpm)				16	
Actuator <sup>1)</sup> AUMA SA 10.1 Output drive Form A TR 26 x 5	Closing pressure (bar)	III.			8,8	5,6
	Torque (Nm)				90	90
	Operating time <sup>2)</sup> (s)				38	49
	Output drive (rpm)				16	
II. Fig. 405: PTFE- / pure graphite-packing;			III. Fig. 460: Bellows seal			

Higher closing pressures on request.

<sup>1)</sup> Motor voltage: 400V 50Hz 3~  
 (Other voltages on request)  
 Technical data for actuator refer to price list.

<sup>2)</sup> Indicated operating times with 50Hz.





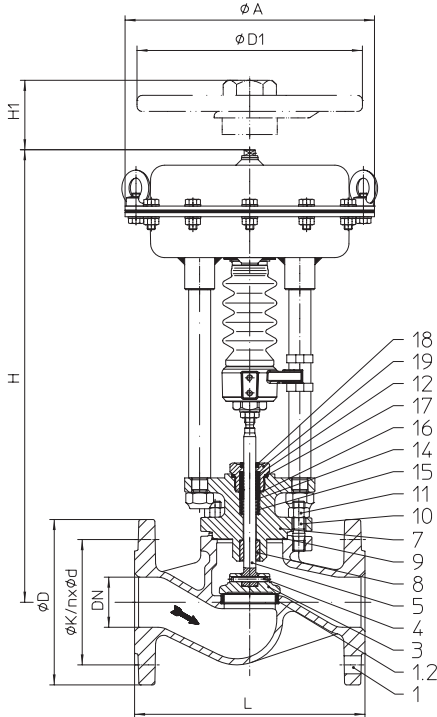
**Stop valve straight through with pneumatic actuator DP (DN 15-150)**


Fig. 405

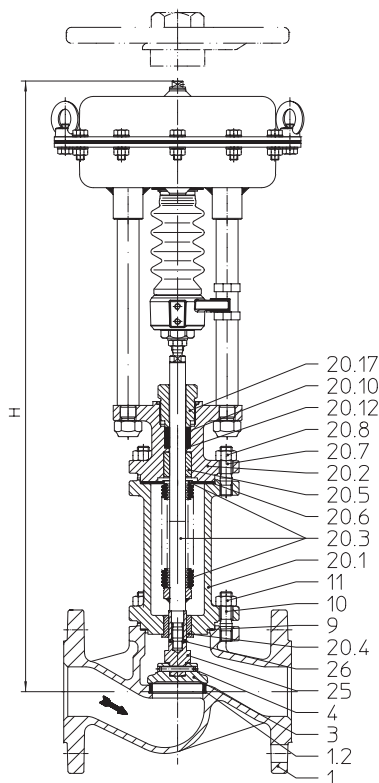


Fig. 460

Figure	Nominal pressure	Material	Nominal diameter
12.405 / 12.460	PN16	EN-JL1040	DN15-150
22.405 / 22.460	PN16	EN-JS1049	DN15-150
23.405 / 23.460	PN25	EN-JS1049	DN15-150
34.405 / 34.460	PN25	1.0619+N	DN15-150
35.405 / 35.460	PN40	1.0619+N	DN15-150
55.405 / 55.460	PN40	1.4408	DN15-150

Other materials and versions on request.

**Stem sealing**

- Fig. 405:
- PTFE-V-ring unit -10°C up to +220°C
  - PTFE-packing -10°C up to +250°C
  - Pure graphite-packing -10°C up to +450°C

- Fig. 460:
- Stainless steel bellows seal with safety stuffing box -60°C up to +450°C

**Plug design**

- standard:
- Isolation plug
- optional:
- Isolation plug with PTFE soft seat (max. 200°C)

**Shut off class (seat / plug leakage classes)**

- Metal seat - Leakage class 1 acc. to DIN 3230 T3 / B0
- Soft seat - Leakage class 1 acc. to DIN 3230 T3 / B0

Closing pressures refer to page 20.

Technical data for actuator refer to data sheet.

**Selection of possible applications**

 Industrial installations, processing technology, plant manufacturing, etc.  
 (other applications on request)

**Selection of possible flow media**

Fig. 405: Cooling water, cooling brine, warm water, hot water, steam, gas, etc.

 Fig. 460: Refrigerant, cooling water, warm water, hot water, thermal oil, steam, gas, etc.  
 (other flow media on request)

**Top mounted handwheel**

Actuator		DP32	DP33	DP34
Ø D1	(mm)	225	300	400
H1	(mm)	270	284	442
Weight	(kg)	5	6	17

Technical data for actuator refer to data sheet DP32-34Tri.

**Dimensions and weights**

		DN	15	20	25	32	40	50	65	80	100	125	150	
L		(mm)	130	150	160	180	200	230	290	310	350	400	480	
DP32	Ø A	(mm)	250										--	--
	Fig. 405	H	(mm)	411	411	439	451	457	463	476	492	511	--	--
		PN16	(kg)	12,6	13,3	14,2	15,8	17,7	20,6	25,7	31,4	42	--	--
		PN25/40	(kg)	13,4	14,2	15,5	17,3	19,8	22,5	29,7	35,9	49	--	--
	Fig. 460	H	(mm)	616	616	624	635	626	628	712	724	740	--	--
		PN16	(kg)	17	17	18	20,5	23	25,5	28,5	39,5	55	--	--
PN25/40		(kg)	19	20,5	23	26	32	34,5	41,5	51,5	68	--	--	
DP33	Ø A	(mm)	300										--	--
	Fig. 405	H	(mm)	472	472	480	481	487	504	531	547	566	--	--
		PN16	(kg)	18,6	19,3	20,2	21,8	23,7	26,6	31,7	37,4	48	--	--
		PN25/40	(kg)	19,4	20,2	21,5	23,3	25,8	28,5	35,7	41,9	55	--	--
	Fig. 460	H	(mm)	657	657	665	665	656	669	767	779	795	--	--
		PN16	(kg)	23	23	24	26,5	29	31,5	34,5	45,5	61	--	--
PN25/40		(kg)	25	26,5	29	32	38	40,5	47,5	57,5	74	--	--	
DP34	Ø A	(mm)	--	--	--	--	405						--	--
	Fig. 405	H	(mm)	--	--	--	--	609	615	628	632	651	701	761
		PN16	(kg)	--	--	--	--	53,7	56,6	61,7	67,4	78	100	121
		PN25/40	(kg)	--	--	--	--	55,8	58,5	65,7	71,9	85	112	143
	Fig. 460	H	(mm)	--	--	--	--	796	798	882	876	892	929	1087
		PN16	(kg)	--	--	--	--	59	61,5	64,5	75,5	91	107	138
PN25/40		(kg)	--	--	--	--	68	70,5	77,5	87,5	104	119	163	

Standard-flange dimensions refer to page 27.

Face-to-face dimension FTF series 1 according to DIN EN 558-1.

**Parts**

Pos.	Description	Fig. 12.405 Fig. 12.460	Fig. 22.405 / Fig. 23.405 Fig. 22.460 / Fig. 23.460	Fig. 34.405 / Fig. 35.405 Fig. 34.460 / Fig. 35.460	Fig. 55.405 Fig. 55.460	
1	Body	EN-GJL-250 , EN-JL1040	EN-GJS-400-18U-LT, EN-JS1049	GP240GH+N, 1.0619+N	GX5CrNiMo19-11-2, 1.4408	
1.2	Seat ring	X20Cr13+QT, 1.4021+QT			X20Cr13+QT, 1.4021+QT >DN50: G19 9 Nb Si, 1.4551	--
3	Plug *	X20Cr13+QT, 1.4021+QT			X6CrNiMoTi17-12-2, 1.4571	
4	Straight pin *	46S20+C, 1.0727+C				
5	Stem *	X20Cr13+QT, 1.4021+QT				X6CrNiMoTi17-12-2, 1.4571
7	Mounting bonnet	EN-GJS-400-18U-LT, EN-JS1049		GP240GH+N, 1.0619+N	GX5CrNiMo19-11-2, 1.4408	
8	Guide bushing	X20Cr13+QT, 1.4021+QT (hardened)			X6CrNiMoTi17-12-2, 1.4571	
9	Gasket *	Pure graphite (CrNi laminated with graphite)				
10	Studs	25CrMo4, 1.7218			A4 - 70	
11	Hexagon nuts	C35E, 1.1181				A4
12	V-ring unit *	PTFE				
14	Washer *	X5CrNi18-10, 1.4301				
15	Spring *	X12CrNi17-7, 1.4310				
16	Bushing *	PTFE (reinforced)				
17	Sealing ring *	Cu / Soft iron			X6CrNiMoTi17-12-2, 1.4571	
18	Scraper *	PTFE (reinforced)				
19	Screw joint *	X8CrNiS18-9, 1.4305				
20.1	Bellows housing	EN-GJS-400-18U-LT, EN-JS1049		GP240GH+N, 1.0619+N	GX5CrNiMo19-11-2, 1.4408	
20.2	Mounting bonnet	EN-GJS-400-18U-LT, EN-JS1049		GP240GH+N, 1.0619+N	GX5CrNiMo19-11-2, 1.4408	
20.3	Stem- / Bellows unit *	X20Cr13+QT, 1.4021+QT / X6CrNiTi18-10, 1.4541			X6CrNiMoTi17-12-2, 1.4571	
20.4	Guide bushing	X20Cr13+QT, 1.4021+QT (hardened)			X6CrNiMoTi17-12-2, 1.4571	
20.5	Guide bushing	X20Cr13+QT, 1.4021+QT (hardened)			X6CrNiMoTi17-12-2, 1.4571	
20.6	Gasket *	Pure graphite (CrNi laminated with graphite)				
20.7	Studs	25CrMo4, 1.7218			A4 - 70	
20.8	Hexagon nuts	C35E, 1.1181				A4
20.9	Straight pin (DN125-150)	46S20+C, 1.0727+C				
20.10	Packing ring *	Pure graphite				
20.12	Washer *	X5CrNi18-10, 1.4301				
20.17	Screw joint *	X8CrNiS18-9, 1.4305				
25	Stem adapter *	X20Cr13+QT, 1.4021+QT			X6CrNiMoTi17-12-2, 1.4571	
26	Straight pin *	X12CrNi17-7, 1.4310				

\* Spare parts

Information / restriction of technical rules need to be observed!

ARI-Valves of EN-JL1040 are not allowed to be operated in systems acc. to TRD 110.

A production allowance acc. to TRB 801 No. 45 exists (acc. to TRB 801 No. 45 EN-JL1040 is not allowed.)

The engineer, designing a system or a plant, is responsible for the selection of the correct valve.



max. permissible closing pressures on flow-to-open P2 = 0 (Observe regulations, refer to page 27.)

**Spring opens on air failure**

DN	15	20	25	32	40	50	65	80	100	125	150
Kvs-value	4,2	7,4	12	19	31	47	77	120	188	288	410
Travel (mm)	4	5	7	8	10	13	17	20	25	32	38

Actuator DP32	Air supply pressure min. (bar)		max. permissible closing pressure (bar)										
			15	20	25	32	40	50	65	80	100	125	150
Actuator DP33	1,4	I.	40 a)	40 a)	22,4 a)	14,3 a)	5,4 a)						
		II.	40 a)	39,3 a)	20,5 a)	12,9 a)	4,6 a)						
		III.	29,9	28,1	19	11,7	3,4						
	2	I.			40 a)	31,3 a)	15,5 a)	7,6 a)	2,5				
		II.		40 a)	40 a)	30 a)	14,7 a)	7,1 a)	2,1				
		III.	40	40	40	28,8	13,4	6,3	1,8				
	2,5	I.			40 a)	23,9 a)	13,1 a)	5,8	2,7				
		II.			40 a)	23 a)	12,5 a)	5,4	2,4				
		III.			40	21,8	11,7	5,1	2,2				
	3	I.				32,3 a)	18,5 a)	9,1	4,9	2,1			
		II.				31,4 a)	17,9 a)	8,7	4,6	1,9			
		III.				30,2	17,2	8,4	4,4	1,8			
	3,5	I.				40 a)	23,9 a)	12,5	7,1	3,5			
		II.				39,8 a)	23,4 a)	12	6,8	3,3			
		III.				38,6	22,6	11,8	6,6	3,2			
	4	I.					29,3 a)	15,8	9,3	4,9			
		II.					40 a)	28,8 a)	15,3	9	4,8		
		III.					40	28	15,1	8,8	4,6		
	4,5	I.					34,7 a)	19,1	11,5	6,4			
		II.					34,2 a)	18,6	11,2	6,2			
		III.					33,4	18,4	11	6,1			
	5	I.					40 a)	22,4	13,7	7,8			
		II.					39,6 a)	22	13,4	7,6			
		III.					38,8	21,7	13,2	7,5			
	5,5	I.						25,7	15,9	9,3			
		II.						25,3	15,6	9,1			
		III.					40	25	15,4	8,9			
	6	I.						29	18,1	10,7			
		II.						28,6	17,8	10,5			
		III.						28,3	17,6	10,4			
Actuator DP32	1,4	I.	40 d)	40 d)	40 d)	34,1 d)	17 d)	8,6 d)	3 d)				
		II.	40 d)	40 d)	40 d)	32,7 d)	16,2 d)	8 d)	2,6 d)				
		III.	40 d)	40 d)	40 d)	31,5 d)	15 d)	7,2 d)	2,3 d)				
	2	I.				40 d)	33 d)	18,9 d)	9,4 d)	5 d)	2,1 d)		
		II.				40 d)	32,2 d)	18,4 d)	8,9 d)	4,7 d)	1,9 d)		
		III.				40 d)	31 d)	17,6 d)	8,7 d)	4,5 d)	1,8 d)		
	2,5	I.				40 d)	27,5 d)	14,6 d)	8,5 d)	4,4 d)	1,8 d)		
		II.				40 d)	27 d)	14,2 d)	8,2 d)	4,2 d)	1,7 d)		
		III.				40 d)	26,2 d)	13,9 d)	8,1 d)	4,1 d)	1,6 d)		
	3	I.					36,2 d)	19,9 d)	12 d)	6,7 d)	3,3 d)	1,7 d)	
		II.					35,6 d)	19,5 d)	11,7 d)	6,5 d)	3,2 d)	1,6 d)	
		III.					34,8 d)	19,2 d)	11,6 d)	6,4 d)	3,1 d)	1,5 d)	
	3,5	I.					40 d)	25,2	15,5	9	4,8	2,7	
		II.					40 d)	24,7	15,2	8,8	4,6	2,6	
		III.					40 a)	24,5 a)	15,1 a)	8,7 a)	4,6 a)	2,5	
	4	I.						30,4	19	11,3	6,3	3,8	
		II.						30	18,8	11,1	6,1	3,7	
		III.						29,7 a)	18,6 a)	11 a)	6 a)	3,5	
	4,5	I.						35,7	22,5	13,6	7,7	4,8	
		II.						35,3	22,3	13,4	7,6	4,7	
		III.						35 a)	22,1 a)	13,3 a)	7,5 a)	4,6	
	5	I.						40	26,1	15,9	9,2	5,8	
		II.						40	25,8	15,7	9,1	5,7	
		III.						40 a)	25,6 a)	15,5 a)	9 a)	5,6	
	5,5	I.							29,6	18,1	10,7	6,9	
		II.							29,3	18	10,5	6,8	
		III.										6,7	
	6	I.							33,1	20,4	12,2	7,9	
		II.							32,8	20,2	12	7,8	
		III.										7,7	

I. Fig. 405: PTFE-V-ring unit; II. Fig. 405: PTFE- / pure graphite-packing; III. Fig. 460: Bellows seal

Air supply pressure max. of pneumatic actuators DP: max. permissible 6 bar

Air supply pressure max. limit of control valve: max. permissible a) 5 bar b) 4,5 bar c) 4 bar d) 3,5 bar e) 3 bar f) 2,5 bar

max. permissible closing pressures on flow-to-open P2 = 0 (Observe regulations, refer to page 27.)

Spring opens on air failure

DN		15	20	25	32	40	50	65	80	100	125	150		
Kvs-value		4,2	7,4	12	19	31	47	77	120	188	288	410		
Travel (mm)		4	5	7	8	10	13	17	20	25	32	38		
Actuator DP34	Air supply pressure min. (bar)	1,4	I.						10,8 c)	5,4 b)	1,7 b)	1,6 a)		
			II.						10,4 c)	5,1 b)	1,5 b)	1,5 a)		
			III.							4,9 e)	1,4 e)	1,4 e)		
		2	I.							23,5 c)	13,9 b)	7,2 b)	5,2 a)	2,9 a)
			II.							23,1 c)	13,6 b)	7,1 b)	5,1 a)	2,8 a)
			III.								13,4 e)	6,9 e)	5 e)	2,7 a)
		2,5	I.							34,2 c)	20,9 b)	11,9 b)	8,2 a)	5 a)
			II.							33,7 c)	20,6 b)	11,7 b)	8 a)	4,9 a)
			III.								20,5 e)	11,6 e)	8 e)	4,8 a)
		3	I.							40 c)	28 b)	16,5 b)	11,1 a)	7,1 a)
			II.							40 c)	27,7 b)	16,3 b)	11 a)	7 a)
			III.								27,5 e)	16,2 e)	10,9 e)	6,9 a)
		3,5	I.								35 b)	21,1 b)	14,1 a)	9,2 a)
			II.								34,8 b)	20,9 b)	14 a)	9,1 a)
			III.											9 a)
		4	I.								40 b)	25,7 b)	17,1 a)	11,3 a)
			II.								40 b)	25,5 b)	17 a)	11,2 a)
			III.											11,1 a)
		4,5	I.									30,3 b)	20,1 a)	13,4 a)
			II.									30,1 b)	19,9 a)	13,3 a)
			III.											13,2 a)
		5	I.										23 a)	15,5 a)
			II.										22,9 a)	15,4 a)
			III.											15,3 a)
5,5	I.													
	II.													
	III.													
6	I.													
	II.													
	III.													

I. Fig. 405: PTFE-V-ring unit;

II. Fig. 405: PTFE- / pure graphite-packing;

III. Fig. 460: Bellows seal

Air supply pressure max. of pneumatic actuators DP: max. permissible 6 bar

Air supply pressure max. limit of control valve: max. permissible a) 5 bar b) 4,5 bar c) 4 bar d) 3,5 bar e) 3 bar



Stop valve straight through with pneumatic actuator DP (DN 125v-150v / DN 200-250)

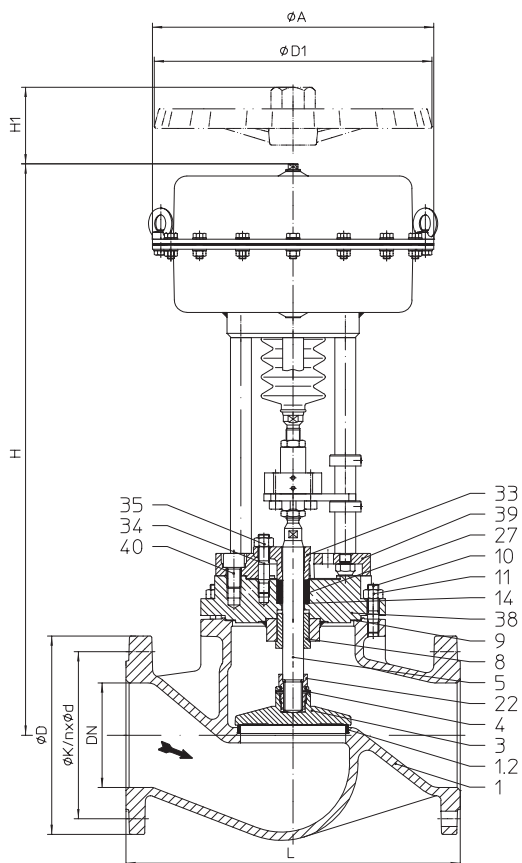


Figure	Nominal pressure	Material	Nominal diameter
12.405 / 12.460	PN16	EN-JL1040	DN125v-150v DN200-250
22.405 / 22.460	PN16	EN-JS1049	DN125v-150v DN200-250
34.405 / 34.460	PN25	1.0619+N	DN125v-150v DN200-250
35.405 / 35.460	PN40	1.0619+N	DN125v-150v DN200-250

Other materials and versions on request.

**Stem sealing**  
 Fig. 405: • PTFE-packing -10°C up to +250°C  
 • Pure graphite-packing -10°C up to +450°C  
 Fig. 460: • Stainless steel bellows seal with safety stuffing box -60°C up to +450°C

**Plug design**  
 standard: • Isolation plug  
 optional: • Isolation plug with PTFE soft seat (max. 200°C)

**Shut off class (seat / plug leakage classes)**  
 • Metal seat - Leakage class 1 acc. to DIN 3230 T3 / B0  
 • Soft seat - Leakage class 1 acc. to DIN 3230 T3 / B0

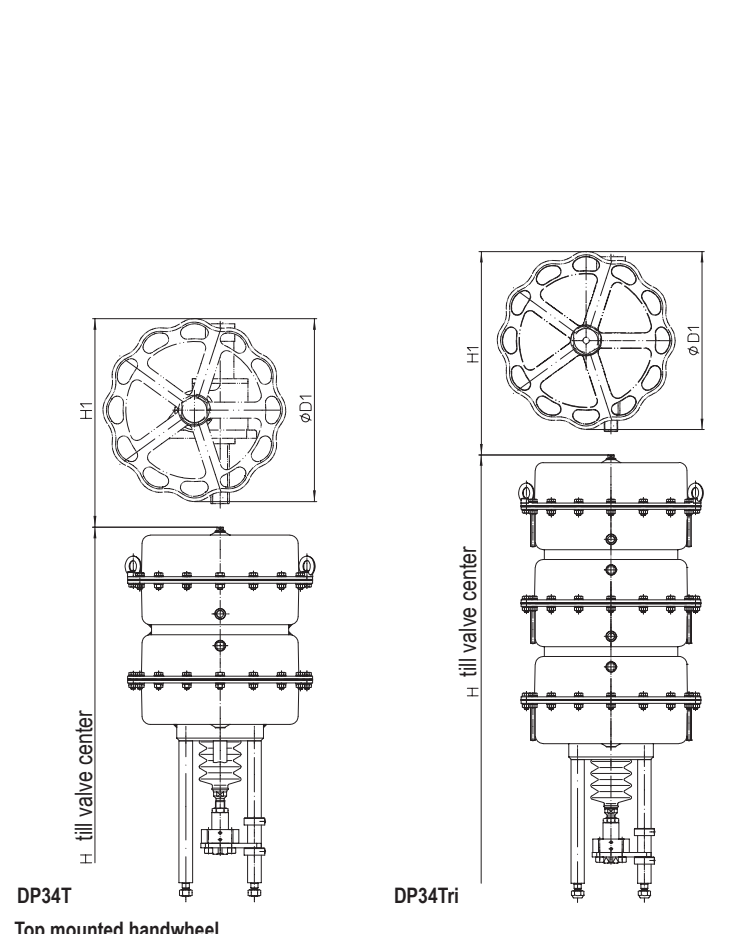
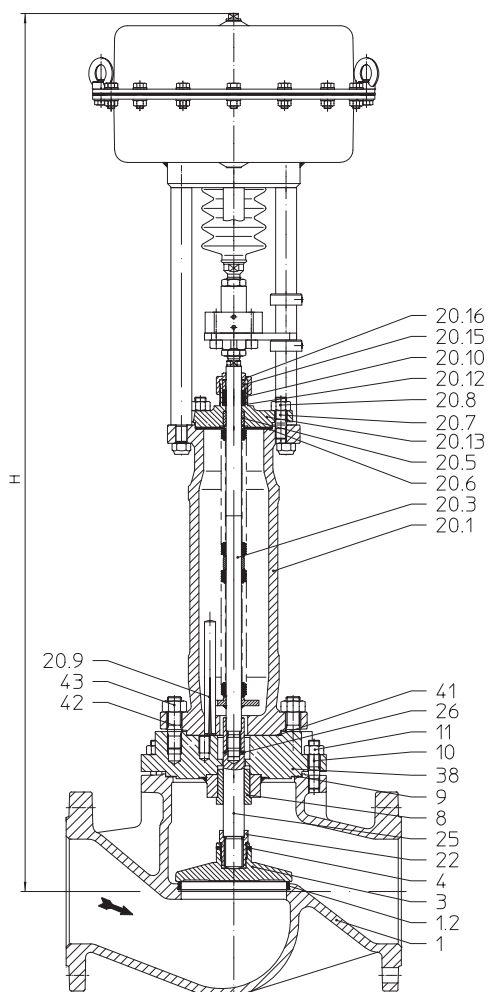
Closing pressures refer to page 26.

Technical data for actuator refer to data sheet.

**Selection of possible applications**  
 Industrial installations, processing technology, plant manufacturing, etc.  
 (other applications on request)

**Selection of possible flow media**  
 Fig. 405: Cooling water, cooling brine, warm water, hot water, steam, gas, etc.  
 Fig. 460: Refrigerant, cooling water, warm water, hot water, thermal oil, steam, gas, etc.  
 (other flow media on request)

Fig. 405



DP34T DP34Tri

**Top mounted handwheel**

Actuator		DP34	DP34T	DP34Tri
$\phi D1$	(mm)	400	400	400
H1	(mm)	442	630	630
Weight	(kg)	17	41	41

Technical data for actuator refer to data sheet DP32-34Tri.

Fig. 460



**Dimensions and weights**

			DN	125v	150v	200	250	
L			(mm)	400	480	600	730	
DP34	Ø A		(mm)	--	--	405		
		Fig. 405	H	(mm)	--	--	824	904
			PN16	(kg)	--	--	176	248
	Fig. 460	H	(mm)	--	--	1366	1427	
		PN16	(kg)	--	--	184	264	
		PN25/40	(kg)	--	--	214	299	
DP34T	Ø A		(mm)	405				
		Fig. 405	H	(mm)	977	1008	1094	1154
			PN16	(kg)	160	177	247	319
	Fig. 460	PN25/40	(kg)	191	231	278	355	
		H	(mm)	1426	1457	1541	1601	
		PN16	(kg)	164	184	255	335	
DP34Tri	Ø A		(mm)	405				
		Fig. 405	H	(mm)	1199	1230	1316	1344
			PN16	(kg)	194	211	281	353
	Fig. 460	PN25/40	(kg)	225	265	312	389	
		H	(mm)	1648	1679	1763	1823	
		PN16	(kg)	198	218	289	369	
	PN25/40	(kg)	229	272	319	404		

Standard-flange dimensions refer to page 27.

Face-to-face dimension FTF series 1 according to DIN EN 558-1.

**Parts**

Pos.	Description	Fig. 12.405 Fig. 12.460	Fig. 22.405 Fig. 22.460	Fig. 34.405 / Fig. 35.405 Fig. 34.460 / Fig. 35.460
1	Body	EN-GJL-250 , EN-JL1040	EN-GJS-400-18U-LT, EN-JS1049	GP240GH+N, 1.0619+N
1.2	Seat ring	X20Cr13+QT, 1.4021+QT		
3	Plug *	X20Cr13+QT, 1.4021+QT		
4	Straight pin *	46S20+C, 1.0727+C		
5	Stem *	X20Cr13+QT, 1.4021+QT		
8	Guide bushing	X20Cr13+QT, 1.4021+QT (hardened)		
9	Gasket *	Pure graphite (CrNi laminated with graphite)		
10	Studs	25CrMo4, 1.7218		
11	Hexagon nuts	C35E, 1.1181		
14	Washer *	X5CrNi18-10, 1.4301		
20.1	Bellows housing	EN-GJS-400-18U-LT, EN-JS1049		GP240GH+N, 1.0619+N
20.3	Stem- / Bellows unit *	X20Cr13+QT, 1.4021+QT / X6CrNiTi18-10, 1.4541		
20.5	Guide bushing	X20Cr13+QT, 1.4021+QT (hardened)		
20.6	Gasket *	Pure graphite (CrNi laminated with graphite)		
20.7	Studs	25CrMo4, 1.7218		
20.8	Hexagon nuts	C35E, 1.1181		
20.9	Straight pin	46S20+C, 1.0727+C		
20.10	Packing ring *	Pure graphite		
20.12	Washer *	X5CrNi18-10, 1.4301		
20.13	Stuffing box housing	GP240GH+N, 1.0619+N		
20.15	Packing follower *	X20Cr13+QT, 1.4021+QT		
20.16	Sleeve nut *	11SMnPb30+C, 1.0718+C		
22	Screw joint *	X14CrMoS17+QT, 1.4104+QT		
25	Stem adapter *	X20Cr13+QT, 1.4021+QT		
26	Straight pin *	X12CrNi17-7, 1.4310		
27	Packing ring *	PTFE or Pure graphite		
33	Packing box flange	EN-GJS-400-18U-LT, EN-JS1049		
34	Studs	25CrMo4, 1.7218		
35	Hexagon nut	C35E, 1.1181		
38	Stuffing box housing	EN-GJS-400-18U-LT, EN-JS1049		GP240GH+N, 1.0619+N
39	Adapter flange	EN-GJS-400-18U-LT, EN-JS1049		
40	Hexagon socket head screw	8.8 - A2B		
41	Gasket *	Pure graphite		
42	Studs	25CrMo4, 1.7218		
43	Hexagon nut	C35E, 1.1181		

\* Spare parts

Information / restriction of technical rules need to be observed!

ARI-Valves of EN-JL1040 are not allowed to be operated in systems acc. to TRD 110.

A production allowance acc. to TRB 801 No. 45 exists (acc. to TRB 801 No. 45 EN-JL1040 is not allowed.)

The engineer, designing a system or a plant, is responsible for the selection of the correct valve.

max. permissible closing pressures on flow-to-open P2 = 0 (Observe regulations, refer to page 27.)

Spring closes on air failure						
DN		125v	150v	200	250	
Kvs-value		288	410	725	1145	
Travel (mm)		32	38	50	65	
Actuator DP34	3,3	II.		1,9		
		III.		1,9		
	4,5	II.		3,1	1,8	
		III.		3,1	1,8	
Actuator DP34T	1,4	II.	5,4 b)	2,7 b)		
		III.	5,4 d)	2,7 d)		
	2,7	II.	13,6	7,6	2,1	
		III.	13,6 b)	7,6 b)	2,2 b)	
	3,3	II.	21,5	13,3	5,5	
		III.	21,5 a)	13,3 a)	5,5 a)	
4,5	II.	25,7	17,8	7,9	4,9	
	III.	24,6 a)	16,9	7,9	4,9	
Actuator DP34Tr	1,4	II.	9,5 f)	5,1 f)	1,2 f)	
		III.	9,5 f)	5,1 f)	1,2 f)	
	2,7	II.	21,7 e)	12,5 e)	4 e)	2,4 e)
		III.	21,8 e)	12,6 e)	4,1 e)	2,4 e)
	3,3	II.	33,6 d)	21 d)	9 d)	
		III.			9,1 d)	
4,5	II.	40 c)	27,8 c)	12,6 b)	8 b)	
	III.					

Spring opens on air failure						
DN		125v	150v	200	250	
Kvs-value		288	410	725	1145	
Travel (mm)		32	38	50	65	
Actuator DP34	2,5	II.		1,9	1	
		III.		1,9 a)	1 a)	
	3	II.			3,1	1,8
		III.			3,1 a)	1,8 a)
	3,5	II.			4,3	2,6
		III.			4,3 a)	2,6 a)
	4	II.			5,5	3,4
		III.			5,5 a)	3,4 a)
	4,5	II.			6,7	4,1
		III.			6,7 a)	4,1 a)
5	II.			7,9	4,9	
	III.			7,9 a)	4,9 a)	
5,5	II.			9,1	5,7	
6	II.			10,2	6,5	
Actuator DP34T	1,4	II.	5,4 c)	2,7 b)		
		III.	5,5 e)	2,7 e)		
	2	II.	12,6 c)	7,7 b)	3,1 b)	1,8 b)
		III.	12,6 e)	7,7 e)	3,1 e)	1,8 e)
	2,5	II.	18,5 c)	11,9 b)	5,5 b)	3,4 b)
		III.	18,5 e)	11,9 e)	5,5 e)	3,4 e)
	3	II.	24,5 c)	16,1 b)	7,9 b)	4,9 b)
		III.	24,5 e)	16,1 e)	7,9 e)	4,9 e)
	3,5	II.	30,4 c)	20,2 b)	10,3 b)	6,5 b)
	4	II.	36,4 c)	24,4 b)	12,6 b)	8 b)
5	II.		28,6 b)	15 b)	9,6 b)	

II. Fig. 405: PTFE- / pure graphite-packing;

III. Fig. 460: Bellows seal

Air supply pressure max. of pneumatic actuators DP: max. permissible 6 bar

Air supply pressure max. limit of control valve: max. permissible a) 5 bar b) 4,5 bar c) 4 bar d) 3,5 bar e) 3 bar f) 2,5 bar

**Standard-flange dimensions**

Flanges acc. to DIN EN 1092-1/-2 (Flangeholes / -thickness tol. acc. to DIN 2533/2544/2545)

DN		(mm)	15	20	25	32	40	50	65	80	100	125	150	200	250
PN16	ØD	(mm)	95	105	115	140	150	165	185	200	220	250	285	340	405
PN16	ØK	(mm)	65	75	85	100	110	125	145	160	180	210	240	295	355
PN16	n x Ød	(mm)	4x14	4x14	4x14	4x18	4x18	4x18	4x18	8x18	8x18	8x18	8x22	12x22	12x26
PN25	ØD	(mm)	95	105	115	140	150	165	185	200	235	270	300	360	425
PN25	ØK	(mm)	65	75	85	100	110	125	145	160	190	220	250	310	370
PN25	n x Ød	(mm)	4x14	4x14	4x14	4x18	4x18	4x18	8x18	8x18	8x22	8x26	8x26	12x26	12x30
PN40	ØD	(mm)	95	105	115	140	150	165	185	200	235	270	300	375	450
PN40	ØK	(mm)	65	75	85	100	110	125	145	160	190	220	250	320	385
PN40	n x Ød	(mm)	4x14	4x14	4x14	4x18	4x18	4x18	8x18	8x18	8x22	8x26	8x26	12x30	12x33

**Pressure-temperature-ratings acc. to DIN EN 1092-2**

Material	PN		-60°C to <-10°C *	-10°C to 120°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C
EN-JL1040	16	bar	--	16	14,4	12,8	11,2	9,6	--	--	--
EN-JS1049	16	bar	on request	16	15,5	14,7	13,9	12,8	11,2	--	--
EN-JS1049	25	bar	on request	25	24,3	23	21,8	20	17,5	--	--

**Pressure-temperature-ratings acc. to DIN EN 1092-1**

Material	PN		-60°C to <-10°C *	-10°C to 50°C	100°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C
1.0619+N	25	bar	18,7	25	23,3	21,7	19,4	17,8	16,1	15	14,4	13,9
1.0619+N	40	bar	30	40	37,3	34,7	30,2	28,4	25,8	24	23,1	22,2
1.4408	40	bar	40	40	37,3	33,8	31,1	29,3	27,6	26,7	25,6	--

Intermediate values for max. permissible operational pressures can be determined by linear interpolation of the given temperature / pressure chart.

\* Valve with extended bonnet, studs and nuts made of A4-70 (at temperatures below -10°C)

**Please indicate when ordering**

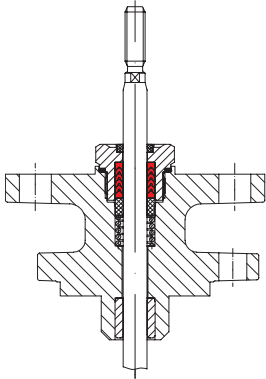
- Figure-No.
- Nominal diameter
- Nominal pressure
- Body material
- Plug design
- Stem sealing
- Actuator
- Special design / accessories

**Example:**

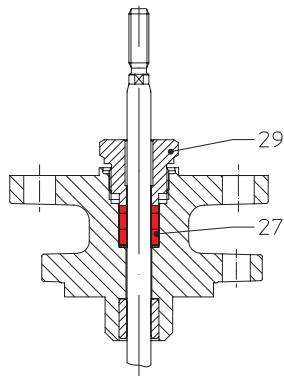
Figure 35.405; nominal diameter DN 100; nominal pressure PN 40; body material 1.0619+N; isolation plug; stem sealing PTFE-V-ring unit; ARI-PREMIO 5kN

 Dimensions in mm  
 Weights in kg  
 Pressures in barg (gauge)  
 1 bar  $\hat{=}$  10<sup>5</sup> Pa  $\hat{=}$  0,1 MPa  
 Kvs in m<sup>3</sup>/h

**Stem sealing**

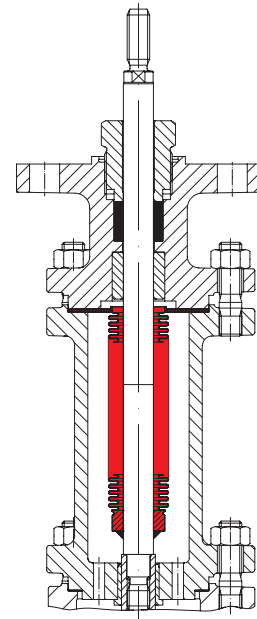


Spring loaded PTFE-V ring packing unit (to DN150)



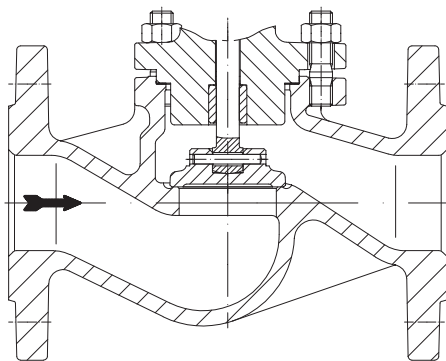
Pos.	Description	
27	Packing ring *	PTFE or pure graphite
29	Screw joint *	X8CrNiS18-9, 1.4305

PTFE-/ Pure graphite-packing



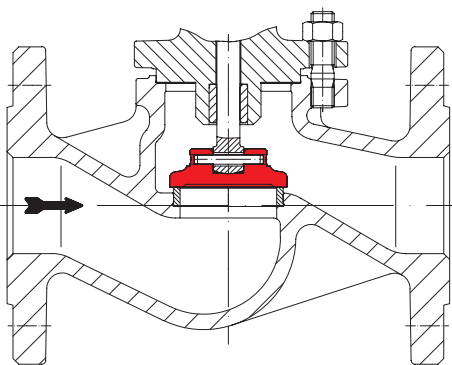
Bellows seal with safety stuffing box

**Body design**

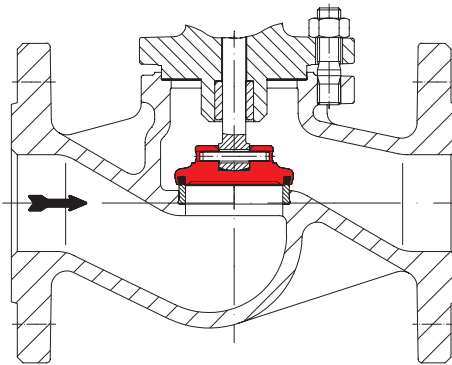


Stainless-steel with machined seat contour

**Plug designs**



Isolation plug



Isolation plug with PTFE soft seat