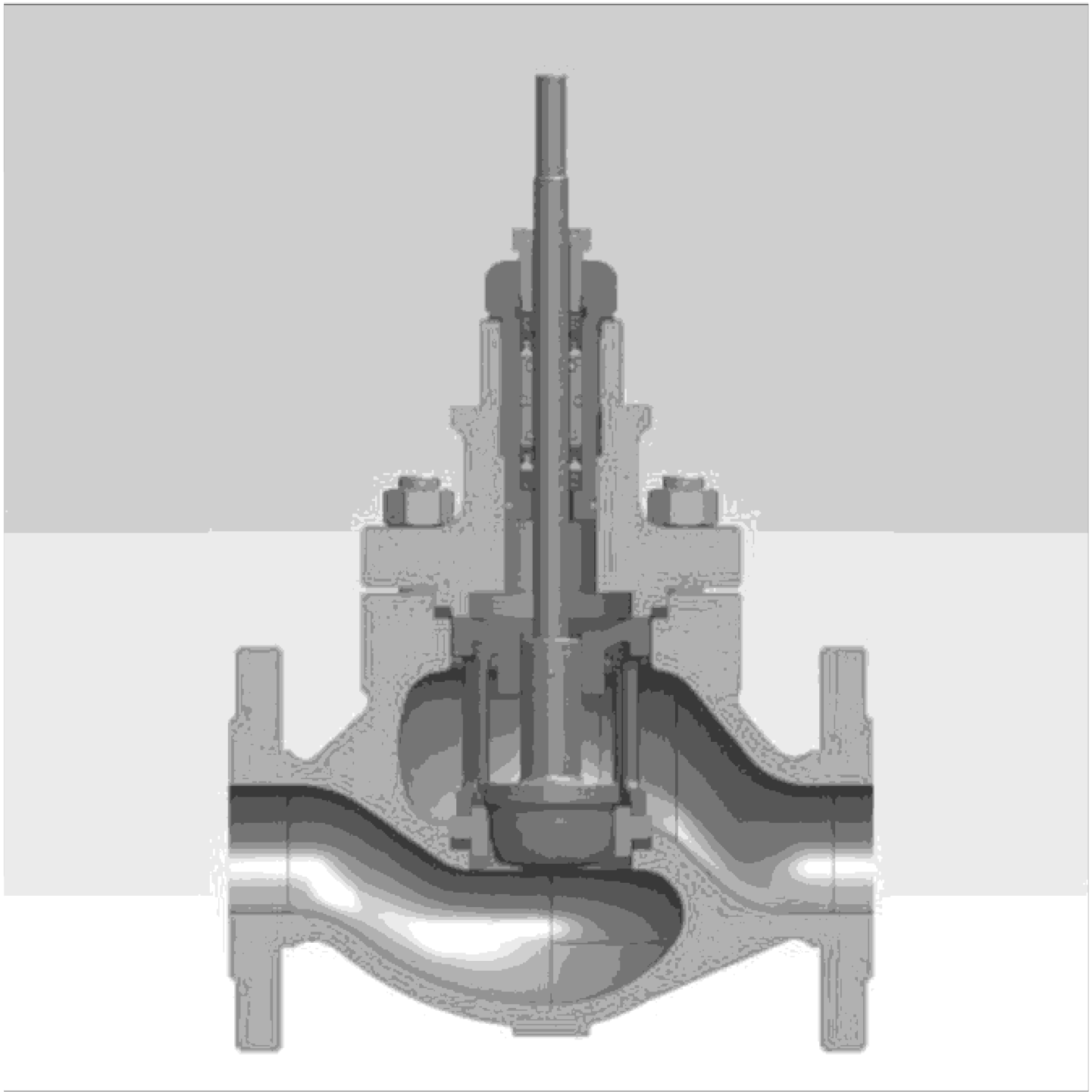


Product & Construction



Section diagram

Overview

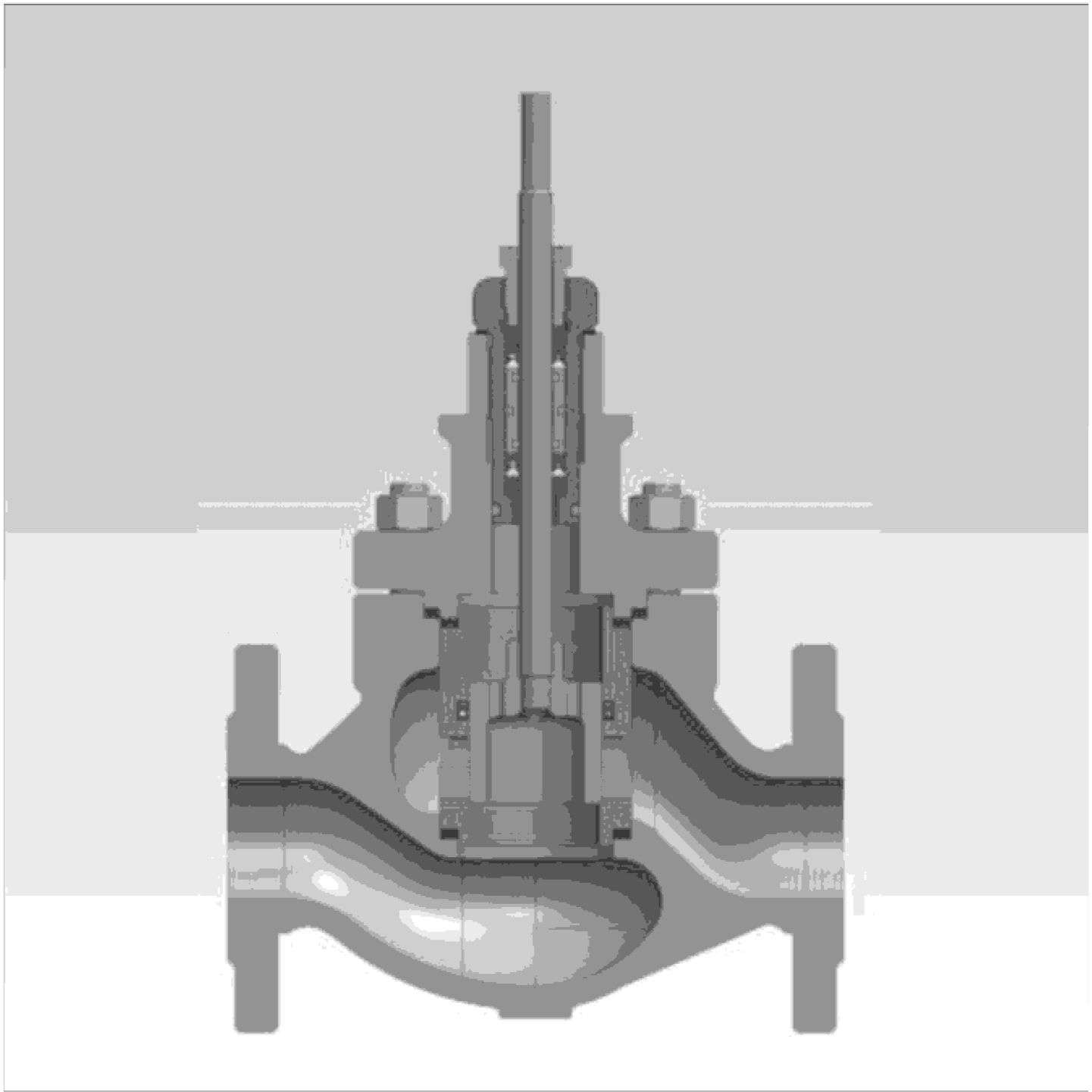
Top guidance, an unbalanced plug and a removable cage-retained seat form the control trim.

Item	Config.
Trim	Unbalanced single seat
Operation	Pneumatic or electric

Selection & Ordering

Item	Required Information
Medium	Name, composition and phase
Flow	Minimum, normal and maximum flow
Pressure	Upstream and downstream pressures; maximum shut-off differential pressure
Temperature	Operating and design temperatures
Ends	Size, standard and connection type
Control	Actuator, signal, air or electrical supply, failure position

Product & Construction



Section diagram

Overview

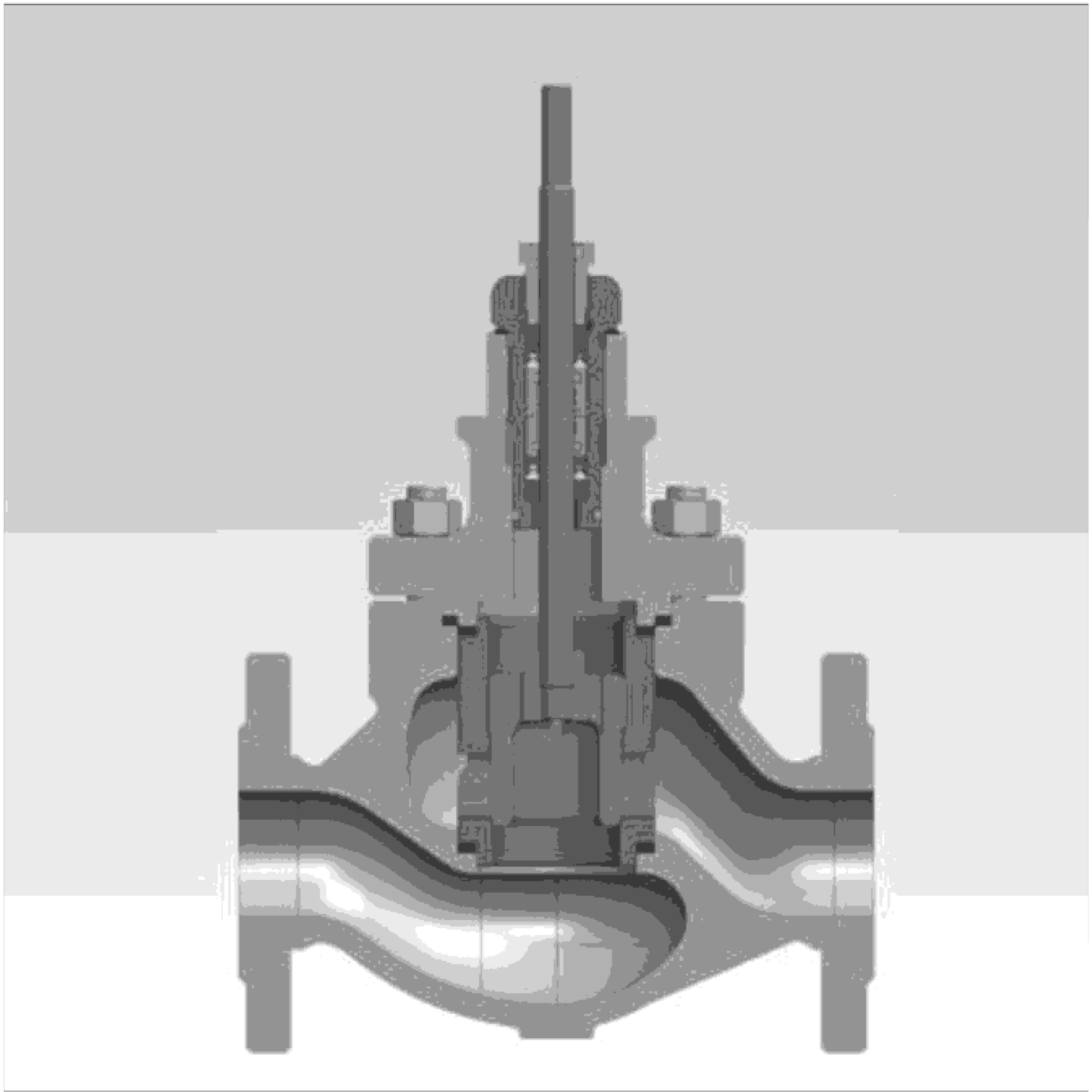
A pressure-balanced single-seat arrangement uses a balance seal and cage guidance to guide axial plug movement.

Item	Config.
Trim	Balanced single seat
Operation	Pneumatic or electric

Selection & Ordering

Item	Required Information
Medium	Name, composition and phase
Flow	Minimum, normal and maximum flow
Pressure	Upstream and downstream pressures; maximum shut-off differential pressure
Temperature	Operating and design temperatures
Ends	Size, standard and connection type
Control	Actuator, signal, air or electrical supply, failure position

Product & Construction



Section diagram

Overview

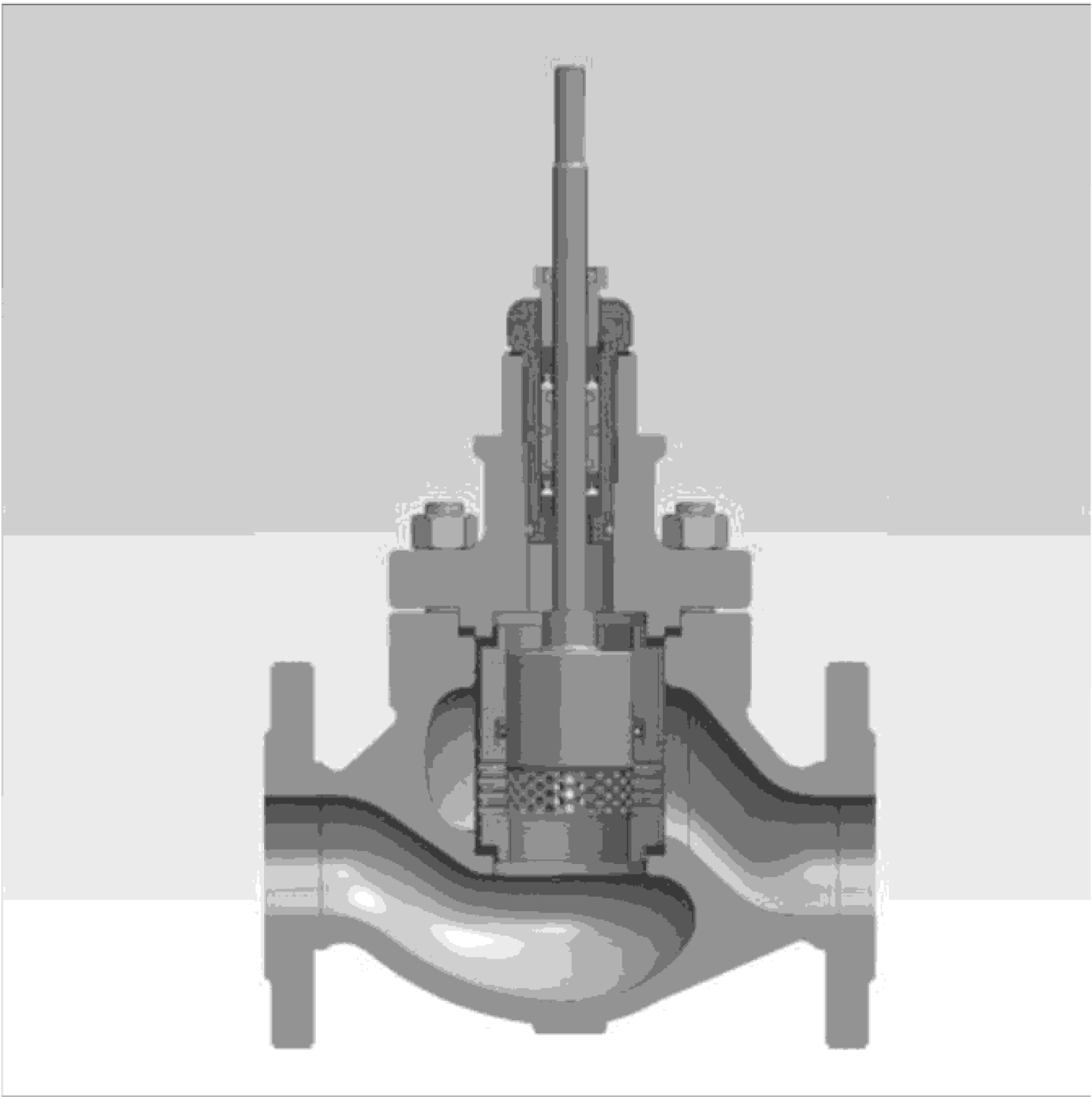
Pressure-balanced double-seat trim combines cage guidance and two metal seating surfaces with the control plug.

Item	Config.
Trim	Balanced double seat
Operation	Pneumatic or electric

Selection & Ordering

Item	Required Information
Medium	Name, composition and phase
Flow	Minimum, normal and maximum flow
Pressure	Upstream and downstream pressures; maximum shut-off differential pressure
Temperature	Operating and design temperatures
Ends	Size, standard and connection type
Control	Actuator, signal, air or electrical supply, failure position

Product & Construction



Section diagram

Overview

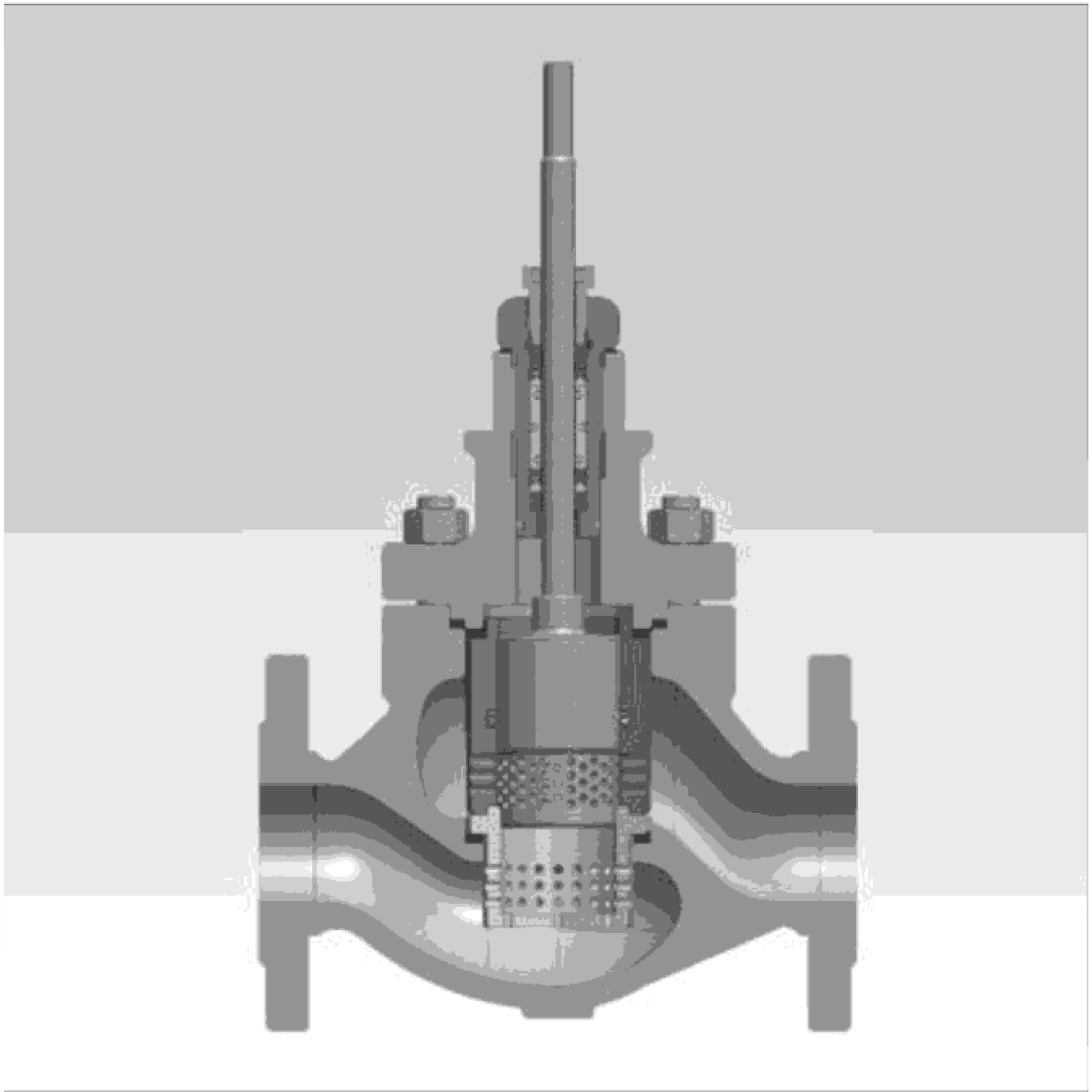
A perforated cage divides the throttling flow and works with balanced, guided trim to regulate the medium.

Item	Config.
Trim	Balanced perforated cage
Operation	Pneumatic or electric

Selection & Ordering

Item	Required Information
Medium	Name, composition and phase
Flow	Minimum, normal and maximum flow
Pressure	Upstream and downstream pressures; maximum shut-off differential pressure
Temperature	Operating and design temperatures
Ends	Size, standard and connection type
Control	Actuator, signal, air or electrical supply, failure position

Product & Construction



Section diagram

Overview

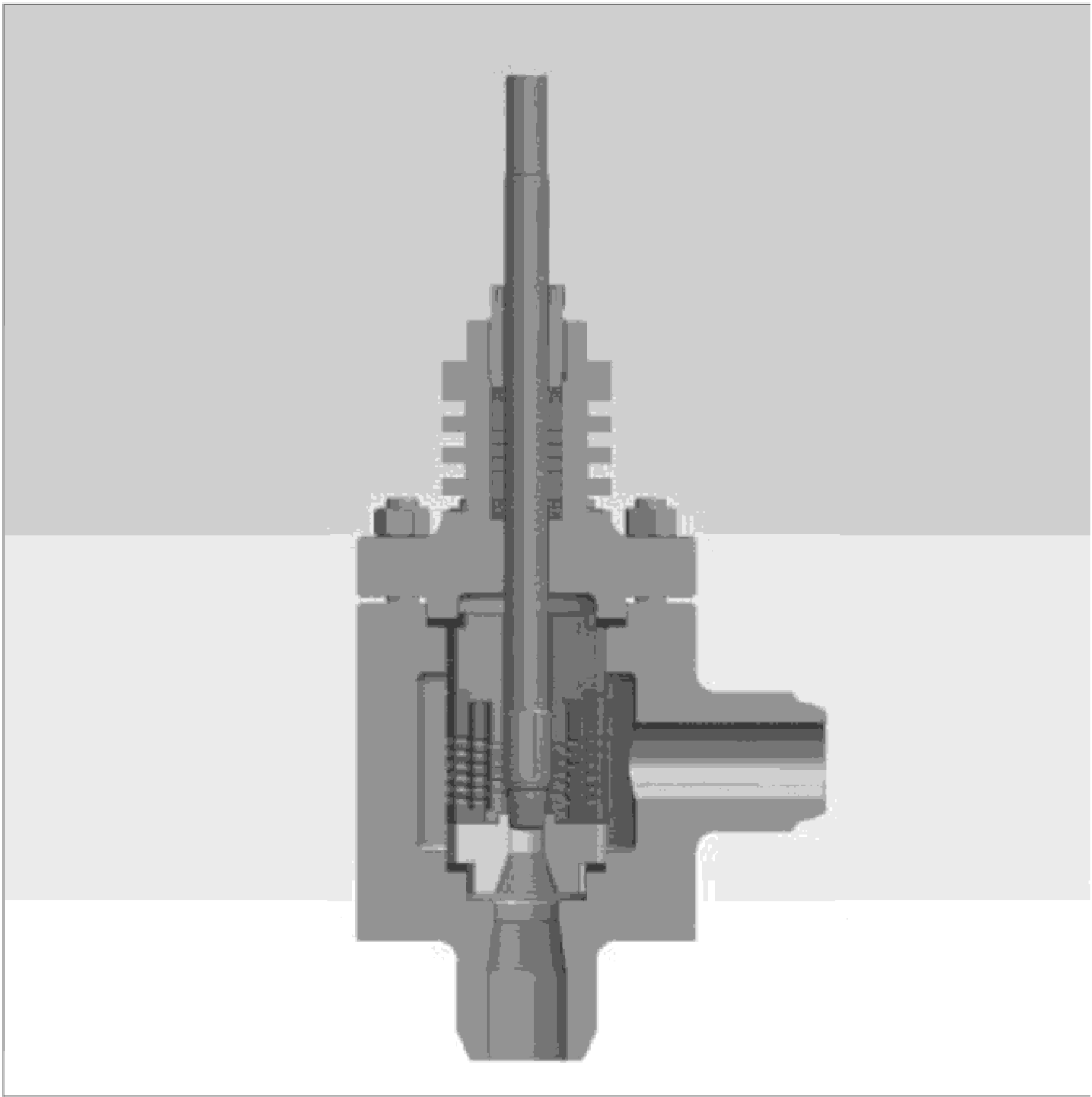
Nested perforated cages create staged throttling passages, with balanced trim selected for the medium, flow and differential pressure.

Item	Config.
Trim	Balanced multistage trim
Operation	Pneumatic or electric

Selection & Ordering

Item	Required Information
Medium	Name, composition and phase
Flow	Minimum, normal and maximum flow
Pressure	Upstream and downstream pressures; maximum shut-off differential pressure
Temperature	Operating and design temperatures
Ends	Size, standard and connection type
Control	Actuator, signal, air or electrical supply, failure position

Product & Construction



Section diagram

Overview

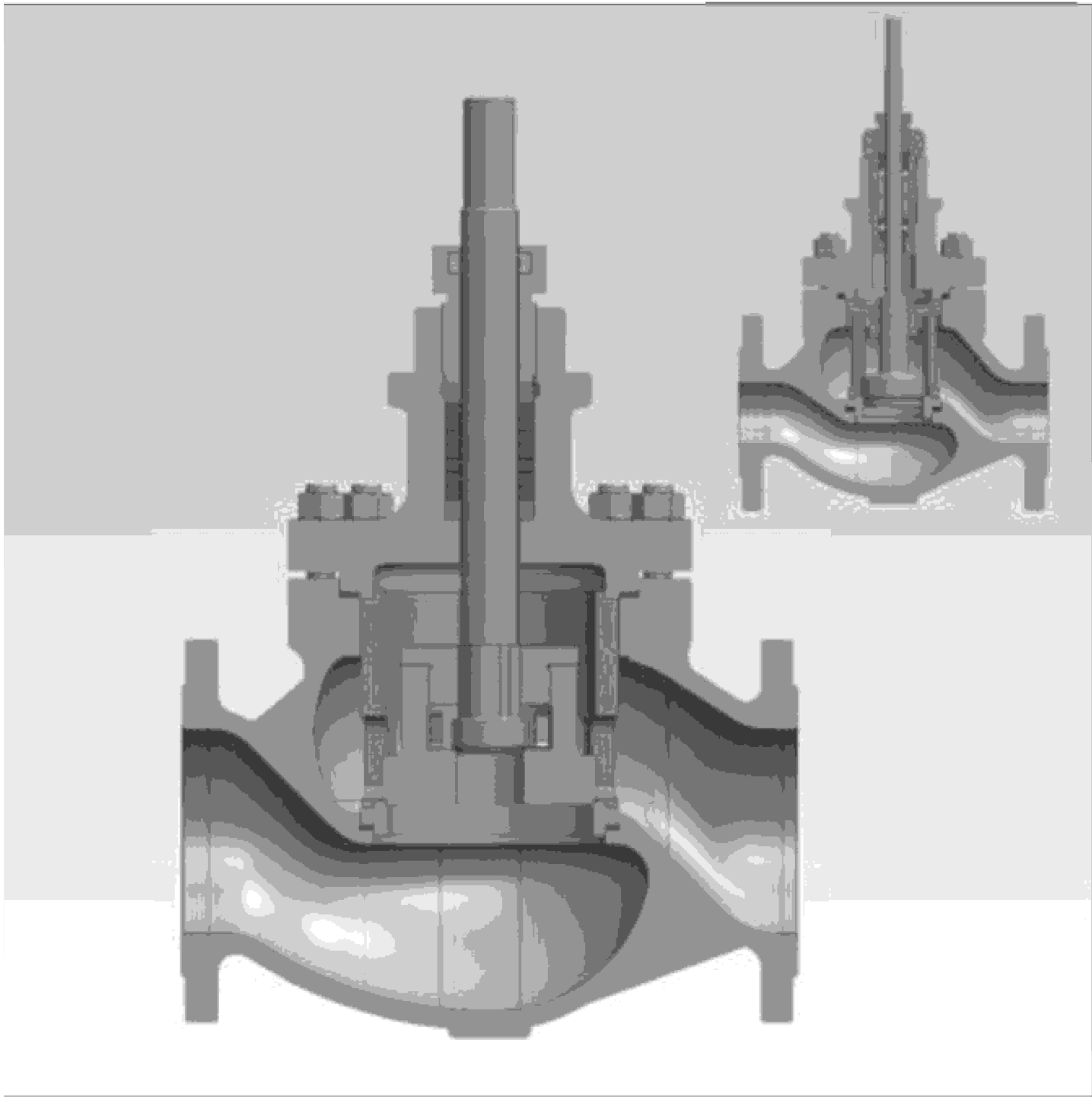
Multistage cages and an unbalanced plug distribute the pressure drop; select flow passages and stages for the service.

Item	Config.
Trim	Unbalanced multistage trim
Operation	Pneumatic or electric

Selection & Ordering

Item	Required Information
Medium	Name, composition and phase
Flow	Minimum, normal and maximum flow
Pressure	Upstream and downstream pressures; maximum shut-off differential pressure
Temperature	Operating and design temperatures
Ends	Size, standard and connection type
Control	Actuator, signal, air or electrical supply, failure position

Product & Construction



Section diagram

Overview

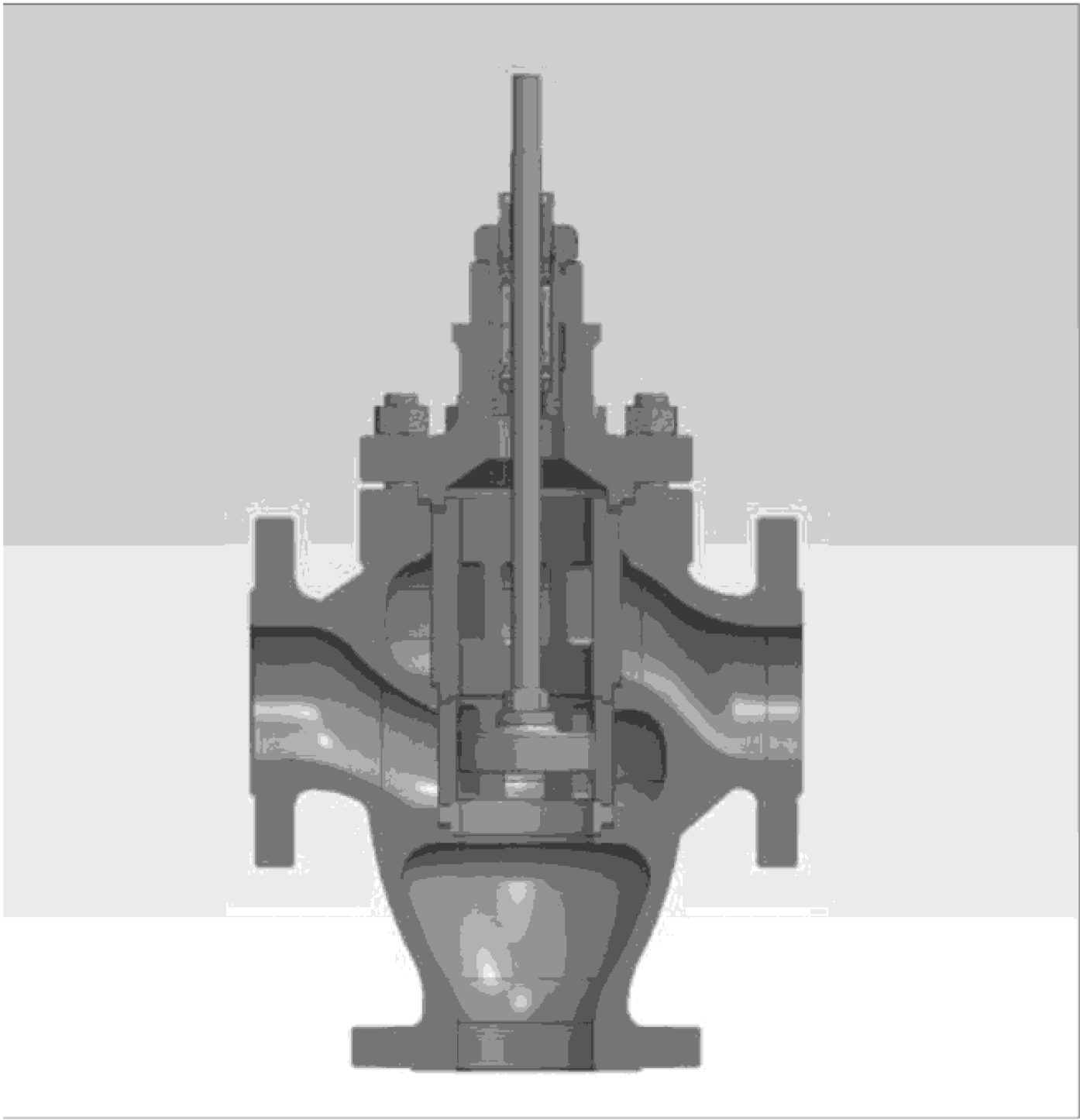
Top-guided unbalanced trim can use a pilot and main plug: the pilot opens first to reduce differential pressure before the main plug opens.

Item	Config.
Trim	Unbalanced shut-off trim
Operation	Pneumatic or electric

Selection & Ordering

Item	Required Information
Medium	Name, composition and phase
Flow	Minimum, normal and maximum flow
Pressure	Upstream and downstream pressures; maximum shut-off differential pressure
Temperature	Operating and design temperatures
Ends	Size, standard and connection type
Control	Actuator, signal, air or electrical supply, failure position

Product & Construction



Section diagram

Overview

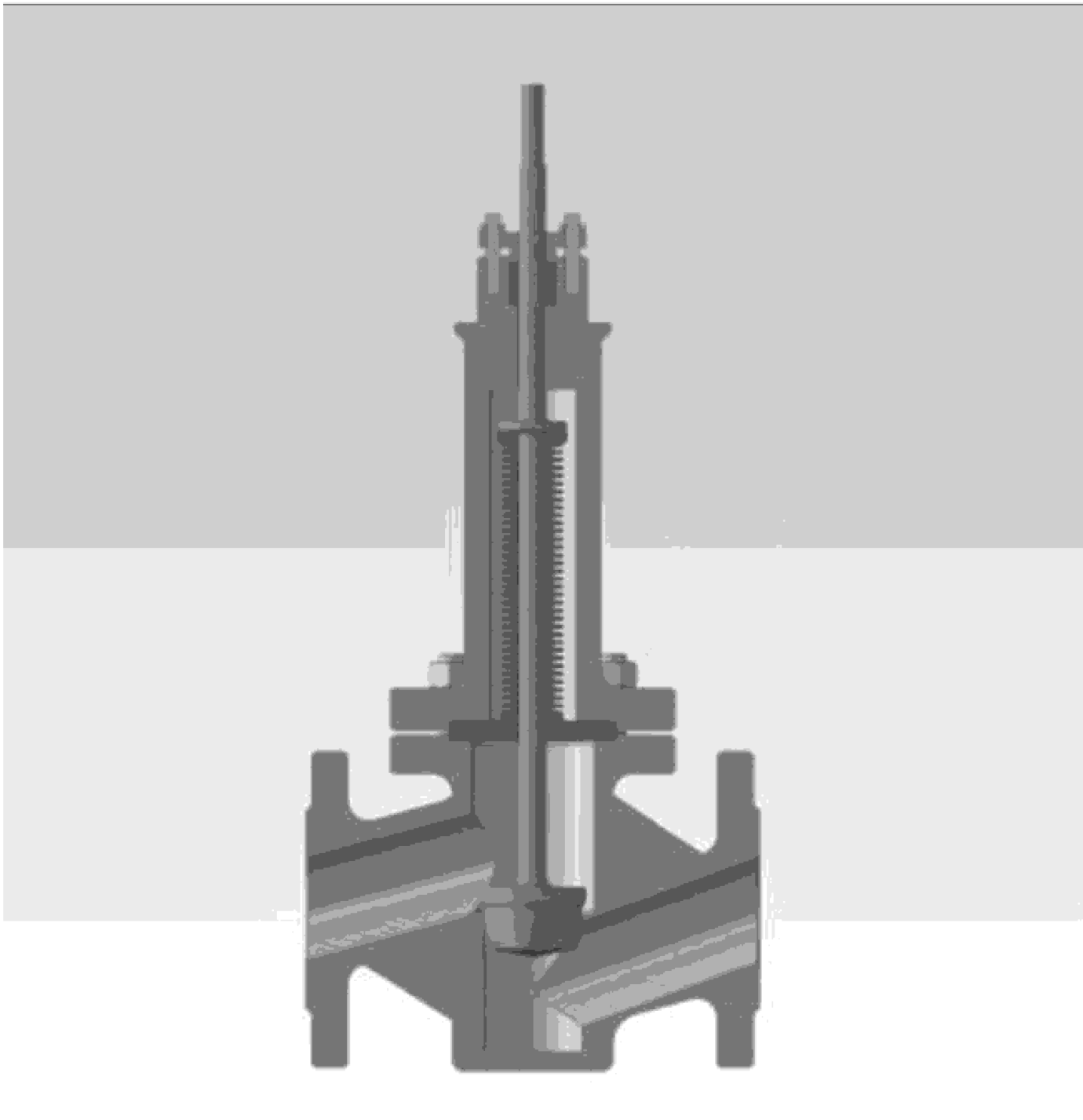
A three-way body with double-seat, cage-guided trim provides mixing or diverting according to the passage and plug configuration.

Item	Config.
Trim	Three-way double seat
Operation	Pneumatic or electric

Selection & Ordering

Item	Required Information
Medium	Name, composition and phase
Flow	Minimum, normal and maximum flow
Pressure	Upstream and downstream pressures; maximum shut-off differential pressure
Temperature	Operating and design temperatures
Ends	Size, standard and connection type
Control	Actuator, signal, air or electrical supply, failure position

Product & Construction



Section diagram

Overview

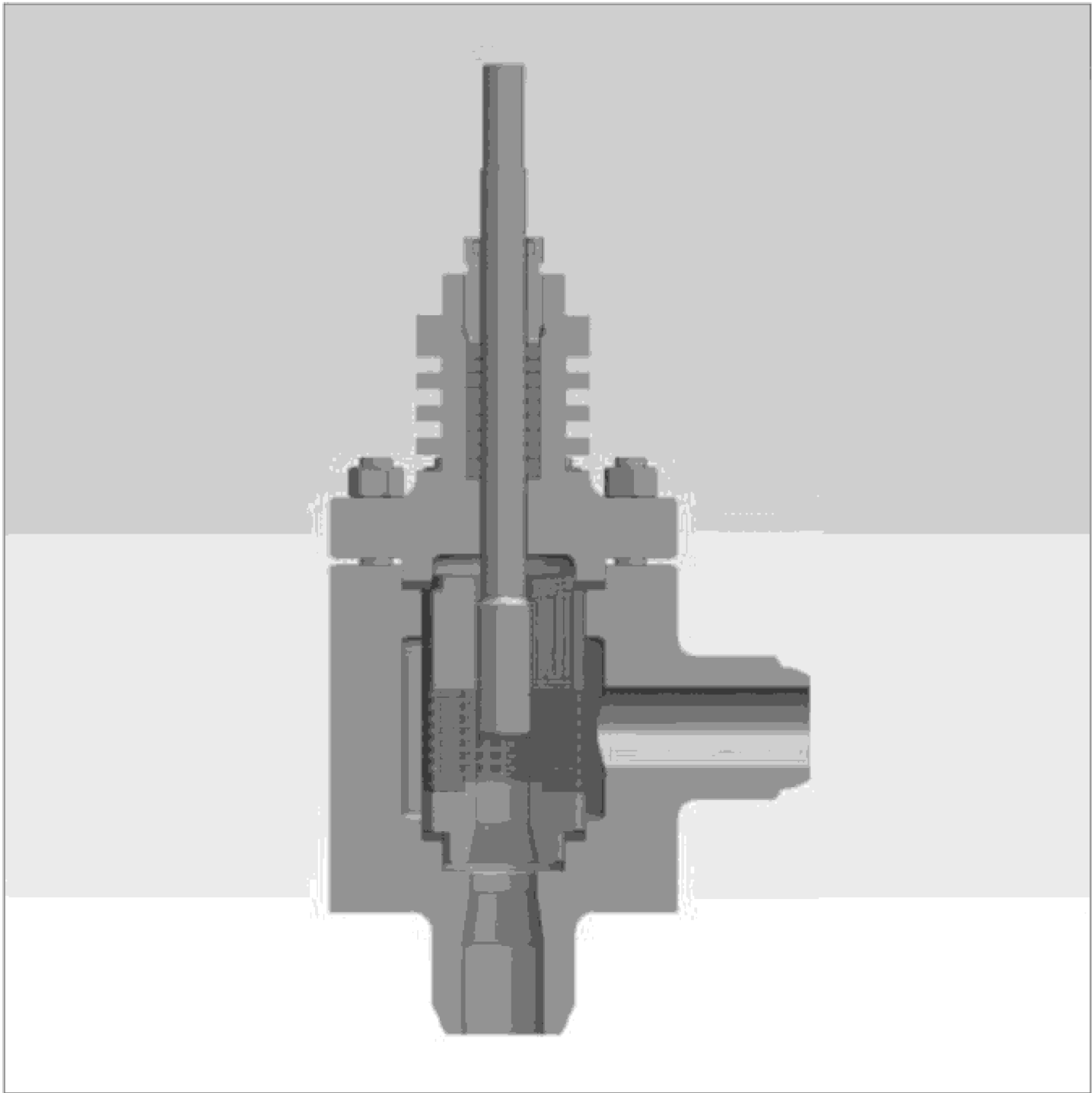
Fluoropolymer-lined body and internals use an unbalanced single-seat plug, with bellows and auxiliary packing sealing the stem.

Item	Config.
Trim	Lined unbalanced single seat
Operation	Pneumatic or electric

Selection & Ordering

Item	Required Information
Medium	Name, composition and phase
Flow	Minimum, normal and maximum flow
Pressure	Upstream and downstream pressures; maximum shut-off differential pressure
Temperature	Operating and design temperatures
Ends	Size, standard and connection type
Control	Actuator, signal, air or electrical supply, failure position

Product & Construction



Section diagram

Overview

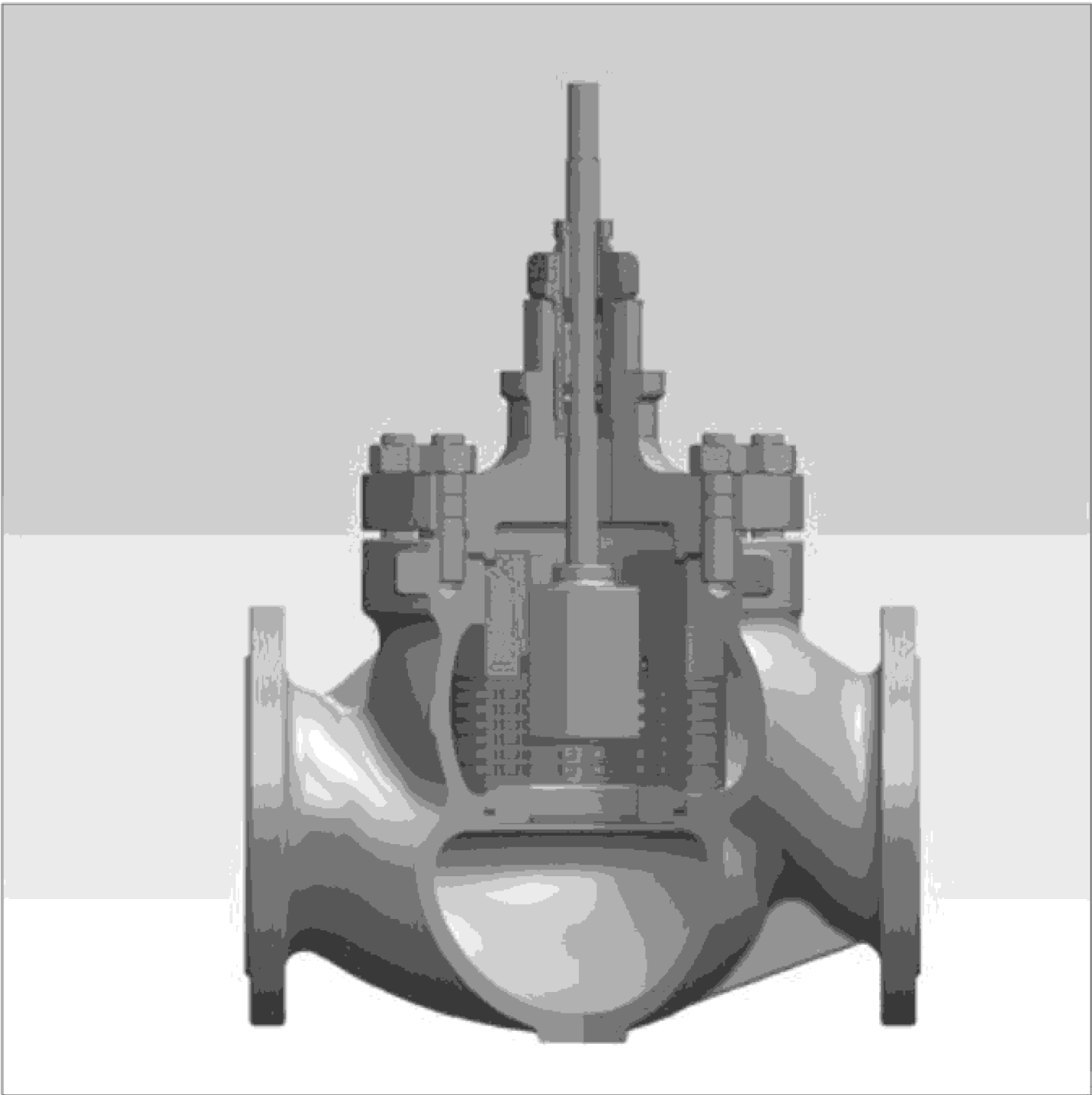
Tortuous passages in stacked labyrinth discs form a multistage throttling network around an unbalanced control plug.

Item	Config.
Trim	Unbalanced labyrinth trim
Operation	Pneumatic or electric

Selection & Ordering

Item	Required Information
Medium	Name, composition and phase
Flow	Minimum, normal and maximum flow
Pressure	Upstream and downstream pressures; maximum shut-off differential pressure
Temperature	Operating and design temperatures
Ends	Size, standard and connection type
Control	Actuator, signal, air or electrical supply, failure position

Product & Construction



Section diagram

Overview

Stacked labyrinth discs form staged pressure-reduction passages with a balanced plug; the medium and differential pressure determine the stages and arrangement.

Item	Config.
Trim	Balanced labyrinth trim
Operation	Pneumatic or electric

Selection & Ordering

Item	Required Information
Medium	Name, composition and phase
Flow	Minimum, normal and maximum flow
Pressure	Upstream and downstream pressures; maximum shut-off differential pressure
Temperature	Operating and design temperatures
Ends	Size, standard and connection type
Control	Actuator, signal, air or electrical supply, failure position

Product & Specifications

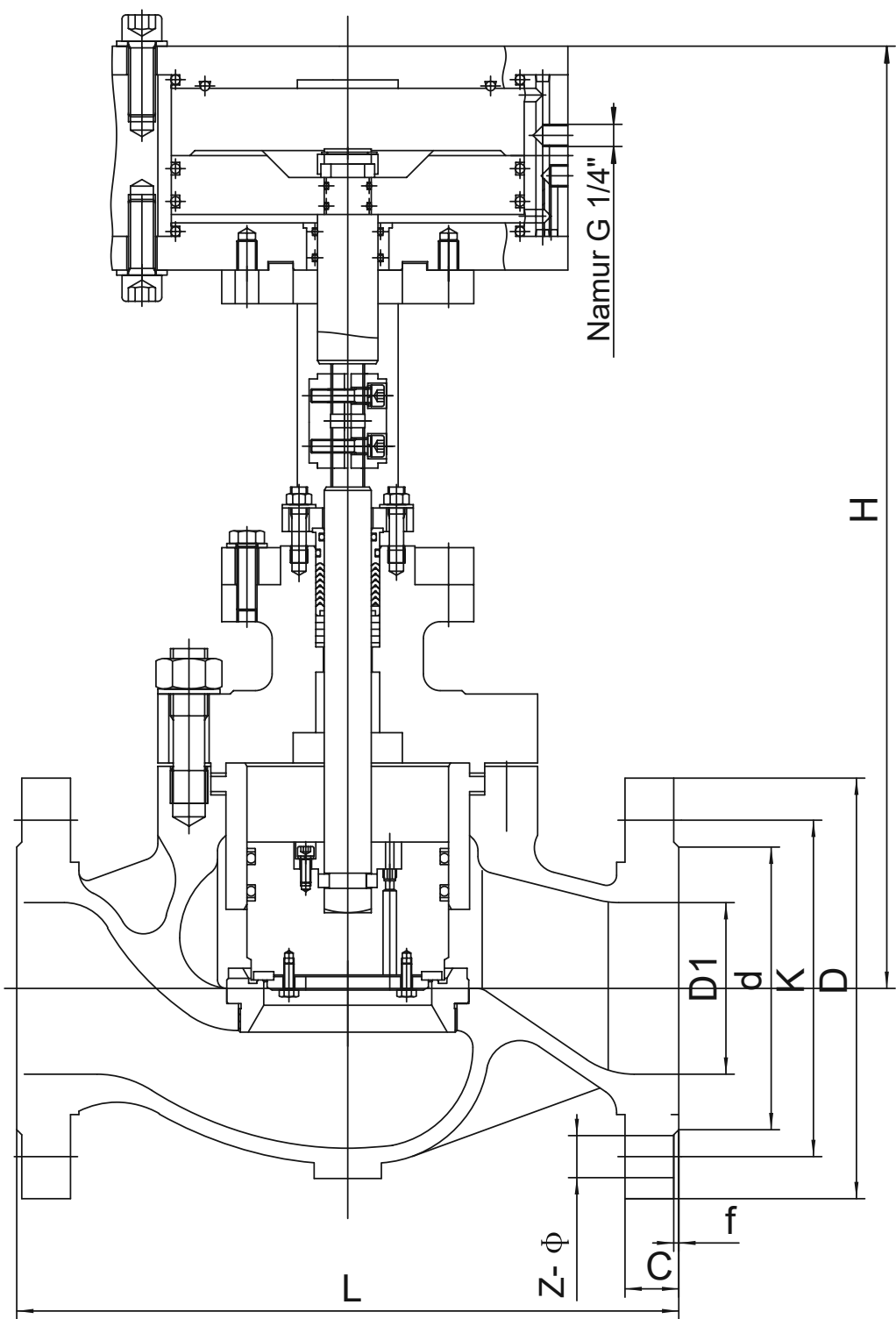


Item	Specification
Model	J641F-16C
Size	DN15–200
PN	1.6 MPa
Service temperature	−29°C~+250°C
Media	CO, H ₂ , CH ₄ , CO ₂ , O ₂ , N ₂
Max. opening differential pressure	1.6 MPa
Connection	Flanged, HG 20592
Air supply pressure	0.4–0.6 MPa

Main Part Materials

Part	Material
Body & bonnet	WCB
Seat & stem	Stainless steel
Sealing ring	Polyphenyl ester-filled PTFE (EF/PTFE)

Outline & Connection Dimensions



Dimensions: mm

Size	L	D1	d	K	D	C	f	Z-φ	H
DN15	184	15	46	65	95	14	2	4-14	384
DN20	184	20	56	75	105	16	2	4-14	384
DN25	184	25	68	85	115	18	2	4-14	384
DN32	184	32	78	100	140	18	2	4-18	410
DN40	222	40	88	110	150	18	2	4-18	430
DN50	254	50	102	125	165	20	2	4-18	482
DN65	276	65	122	145	185	22	2	4-18	510
DN80	298	80	138	160	200	24	2	8-18	620
DN100	352	100	158	190	235	24	2	8-18	640
DN125	403	125	188	220	270	26	2	8-18	680
DN150	451	150	212	250	300	28	2	8-23	720
DN200	543	200	268	310	360	30	2	12-23	780

Product & Specifications

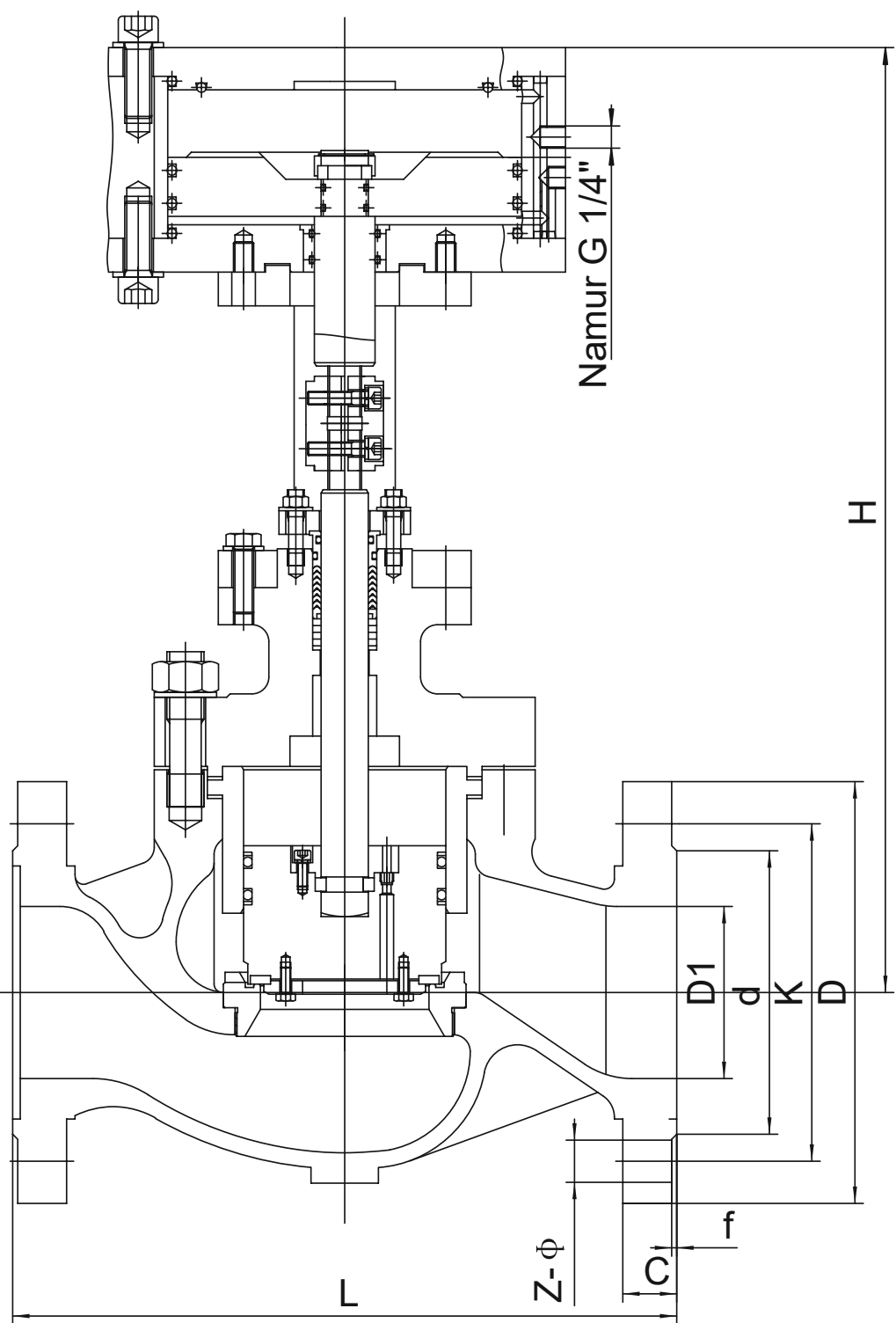


Item	Specification
Model	J641F-25C
Size	DN15–200
PN	2.5 MPa
Service temperature	−29°C~+250°C
Media	CO, H ₂ , CH ₄ , CO ₂ , O ₂ , N ₂
Max. opening differential pressure	2.5 MPa
Connection	Flanged, HG 20592
Air supply pressure	0.4–0.6 MPa

Main Part Materials

Part	Material
Body & bonnet	WCB
Seat & stem	Stainless steel
Sealing ring	Polyphenyl ester-filled PTFE (EF/PTFE)

Outline & Connection Dimensions



Dimensions: mm

Size	L	D1	d	K	D	C	f	Z-φ	H
DN15	184	15	46	65	95	14	2	4-14	384
DN20	184	20	56	75	105	16	2	4-14	384
DN25	193	25	68	85	115	18	2	4-14	384
DN32	210	32	78	100	140	18	2	4-18	410
DN40	251	40	88	110	150	18	2	4-18	430
DN50	286	50	102	125	165	20	2	4-18	482
DN65	311	65	122	145	185	22	2	8-18	510
DN80	337	80	138	160	200	24	2	8-18	620
DN100	394	100	162	190	235	24	2	8-22	640
DN125	500	125	188	220	270	26	2	8-26	680
DN150	550	150	218	250	300	28	2	8-26	720
DN200	650	200	278	310	360	30	2	12-26	780

Product & Specifications

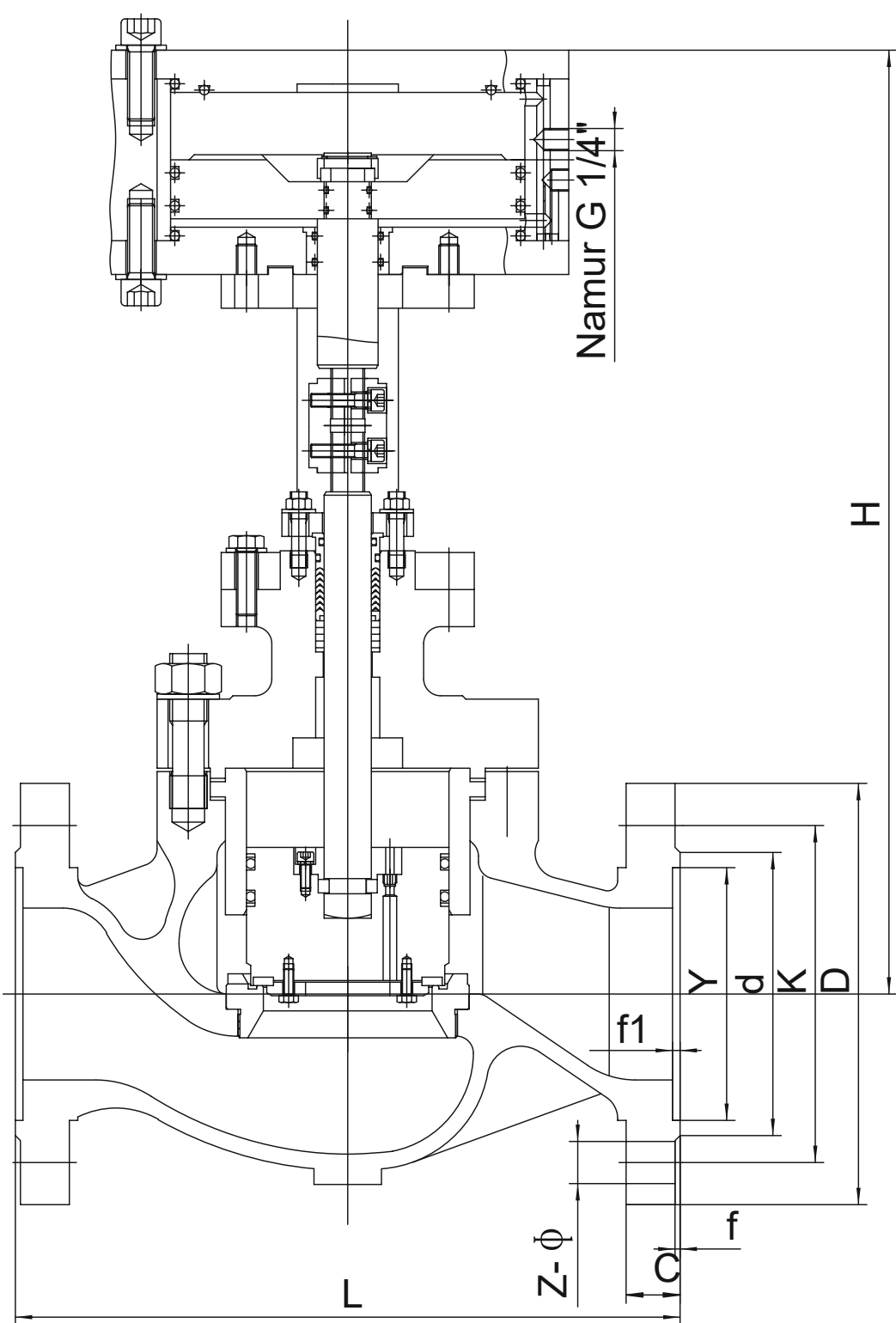


Item	Specification
Model	J641F-40C
Size	DN25–200
PN	4.0 MPa
Service temperature	−29°C~+250°C
Media	CO, H ₂ , CH ₄ , CO ₂ , O ₂ , N ₂
Max. opening differential pressure	4.0 MPa
Connection	Flanged, HG 20592
Air supply pressure	0.4–0.6 MPa

Main Part Materials

Part	Material
Body & bonnet	WCB
Seat & stem	Stainless steel
Sealing ring	Polyphenyl ester-filled PTFE (EF/PTFE)

Outline & Connection Dimensions



Dimensions: mm

Size	L	Y	d	K	D	C	f	f1	Z-φ	H
DN25	197	58	65	85	115	18	2	4	4-14	384
DN32	235	66	76	100	140	18	2	4	4-18	410
DN40	235	76	84	110	150	18	2	4	4-18	430
DN50	267	88	99	125	165	20	2	4	4-18	482
DN65	292	110	118	145	185	22	2	4	8-18	510
DN80	317	121	132	160	200	24	2	4	8-18	620
DN100	368	150	156	190	235	24	2	4.5	8-22	640
DN125	500	176	184	220	270	26	2	4.5	8-26	680
DN150	550	204	218	250	300	28	2	4.5	8-26	720
DN200	568	260	312	320	375	34	2	4.5	12-30	780

Product & Specifications

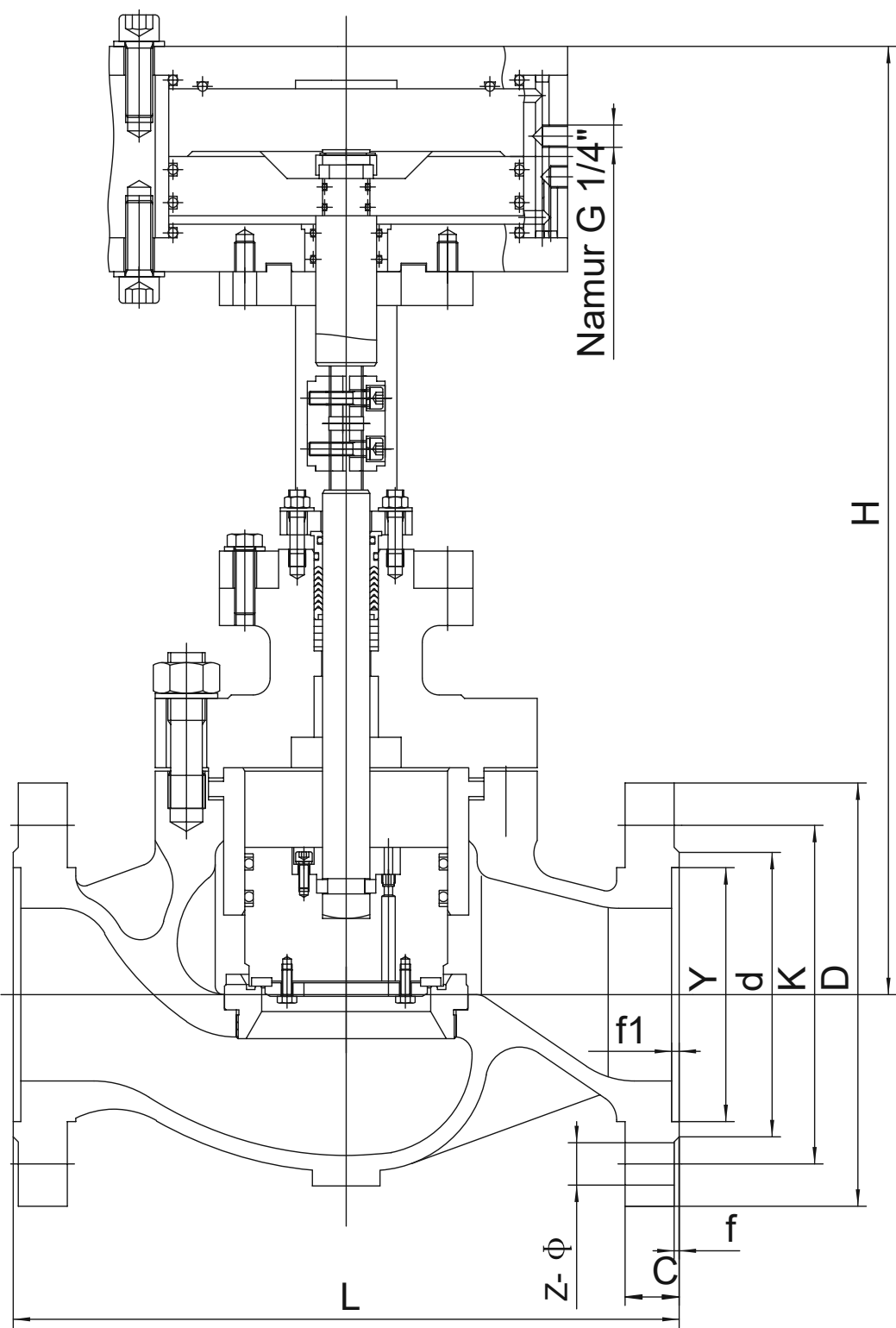


Item	Specification
Model	J641F-63C
Size	DN25–200
PN	6.3 MPa
Service temperature	−29°C~+250°C
Media	CO, H ₂ , CH ₄ , CO ₂ , O ₂ , N ₂
Max. opening differential pressure	5.0 MPa
Connection	Flanged, HG 20592
Air supply pressure	0.4–0.6 MPa

Main Part Materials

Part	Material
Body & bonnet	WCB
Seat & stem	Stainless steel
Sealing ring	Polyphenyl ester-filled PTFE (EF/PTFE)

Outline & Connection Dimensions



Dimensions: mm

Size	L	Y	d	K	D	C	f	f1	Z-φ	H
DN25	210	58	65	100	140	24	2	4	4-18	384
DN32	210	66	76	110	155	24	2	4	4-23	410
DN40	251	76	84	125	170	26	2	4	4-23	430
DN50	286	88	99	135	180	26	2	4	4-23	482
DN65	311	110	118	160	205	26	2	4	8-23	510
DN80	337	121	132	170	215	28	2	4	8-23	620
DN100	394	150	156	200	250	30	2	4.5	8-25	640
DN125	500	176	184	240	295	34	2	4.5	8-30	680
DN150	508	204	218	280	345	36	2	4.5	8-34	720
DN200	610	260	312	345	415	42	2	4.5	12-34	780

Product & Specifications

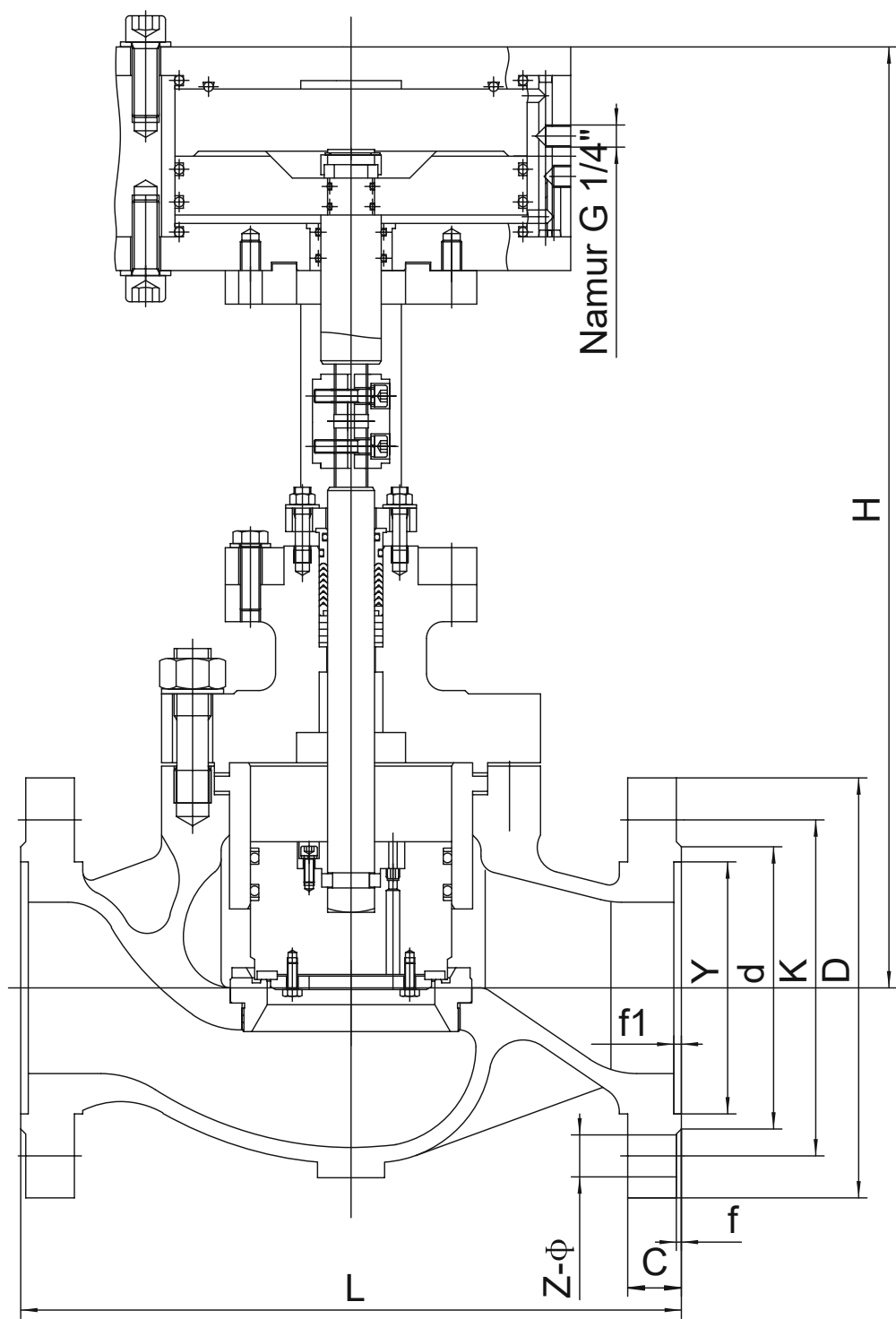


Item	Specification
Model	J641F-100C
Size	DN25–200
PN	10.0 MPa
Service temperature	−29°C~+250°C
Media	CO, H ₂ , CH ₄ , CO ₂ , O ₂ , N ₂
Max. opening differential pressure	7.0 MPa
Connection	Flanged, HG 20592
Air supply pressure	0.4–0.6 MPa

Main Part Materials

Part	Material
Body & bonnet	WCB
Seat & stem	Stainless steel
Sealing ring	Polyphenyl ester-filled PTFE (EF/PTFE)

Outline & Connection Dimensions



Dimensions: mm

Size	L	Y	d	K	D	C	f	f1	Z-φ	H
DN25	210	58	65	100	140	24	2	4	4-18	384
DN32	210	66	76	110	155	24	2	4	4-22	410
DN40	251	76	84	125	170	26	2	4	4-22	430
DN50	286	88	99	145	195	28	2	4	4-26	482
DN65	311	110	118	170	220	30	2	4	8-26	510
DN80	337	121	132	180	230	32	2	4	8-26	620
DN100	394	150	162	210	265	36	2	4.5	8-30	640
DN125	500	176	188	250	315	40	2	4.5	8-33	680
DN150	524	204	250	290	355	44	2	4.5	12-34	720
DN200	630	260	312	360	430	52	2	4.5	12-36	780