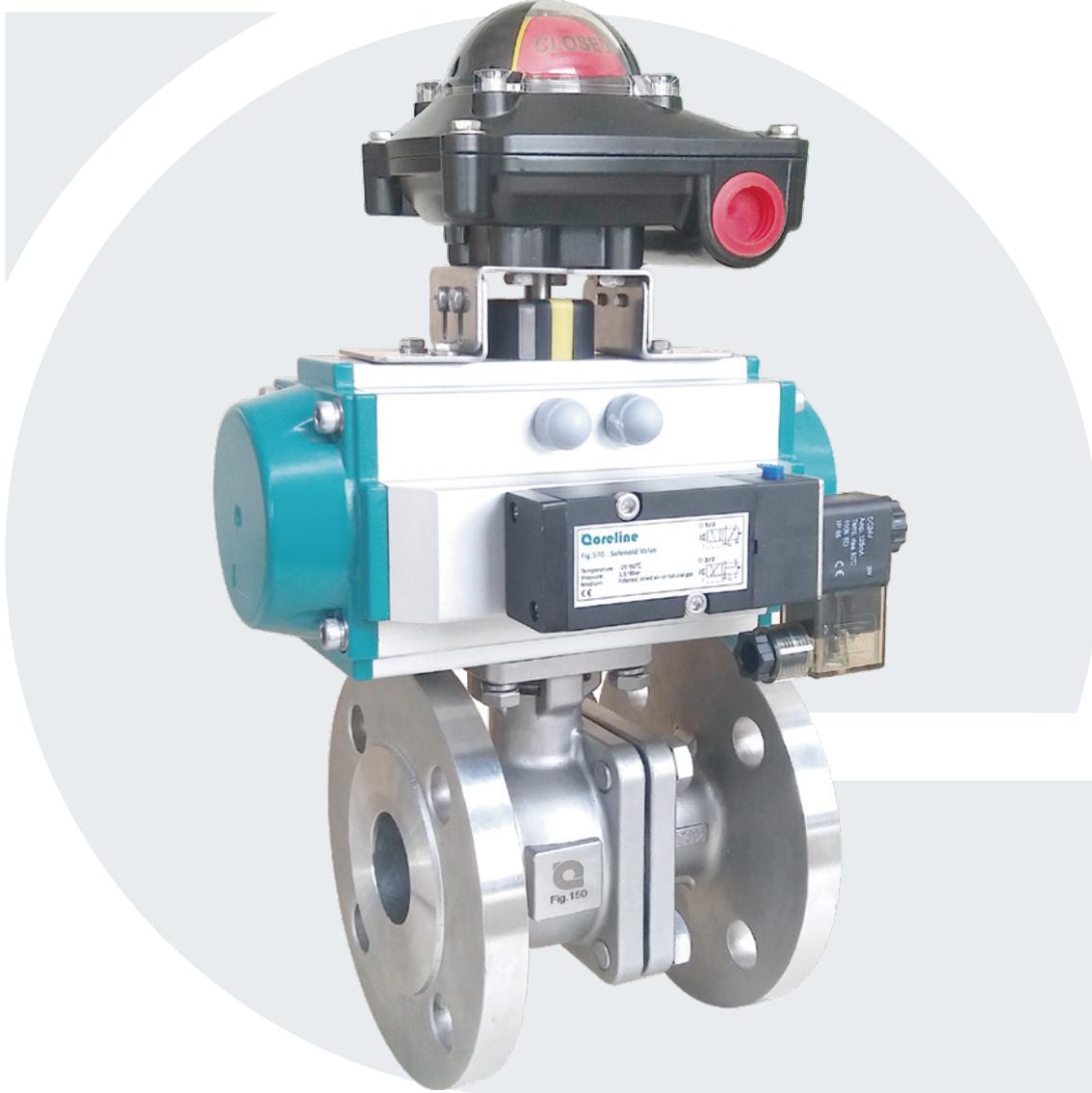
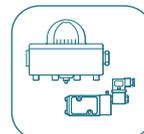
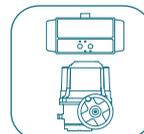
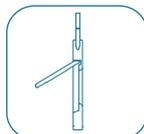
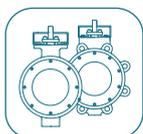


2PC Flanged ball valve

Fig.150



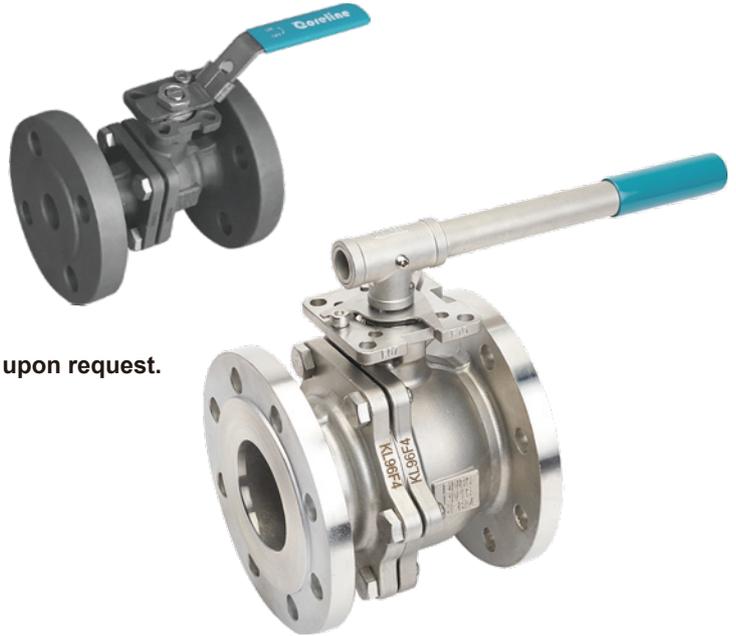
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Geeral information

Features

- **Wax casting** with excellent surface finish.
- Full bore for better Kv value.
- **Anti-static devices** for ball - stem - body.
- **Solid ball** for all sizes up to DN200.
- Blow-out proof stem.
- **Pressure relief hole** in ball slot.
- ISO5211 direct mounting pad for easy automation.
- Standard fire-safe design; **fire-safe certified versions upon request.**



Specifications

Connection:	PN16/40 - DIN EN1092-1 ANSI150 - ASME B16.5
Size range:	DN15-DN200
Pressure rating:	PN16/40, ANSI150
Face to face:	PN16/40 - EN558 series 27 ANSI150 - ASME B16.10
Body:	Carbon steel, stainless steel
Seat:	PTFE with 25% carbon
Tightness:	ANSI/FCI 70-2 - Class VI ISO 5208 / EN 12266-1 - Rate A API 598 - Bubble-tight

* Other materials are available on request.



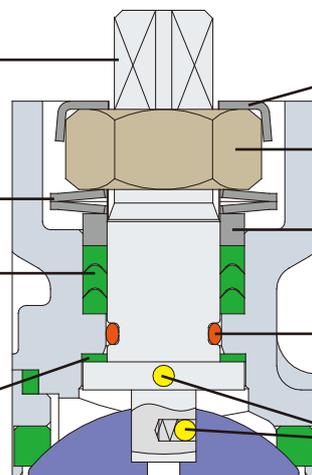
Stem sealing system

Stem is square which is good for automation, having four driving points to absorb strength.

Belleville washer ensure life loaded stem sealing, even with temperature fluctuations.

Chevron shape packing in highly wear-resistant PTFE+25% carbon material, provide optimum stem packing box and long cycle life.

Wide surface contact as primary sealing, provide perfect bubble-tight sealing.



Lock cap for nut, ensure life loaded sealing.

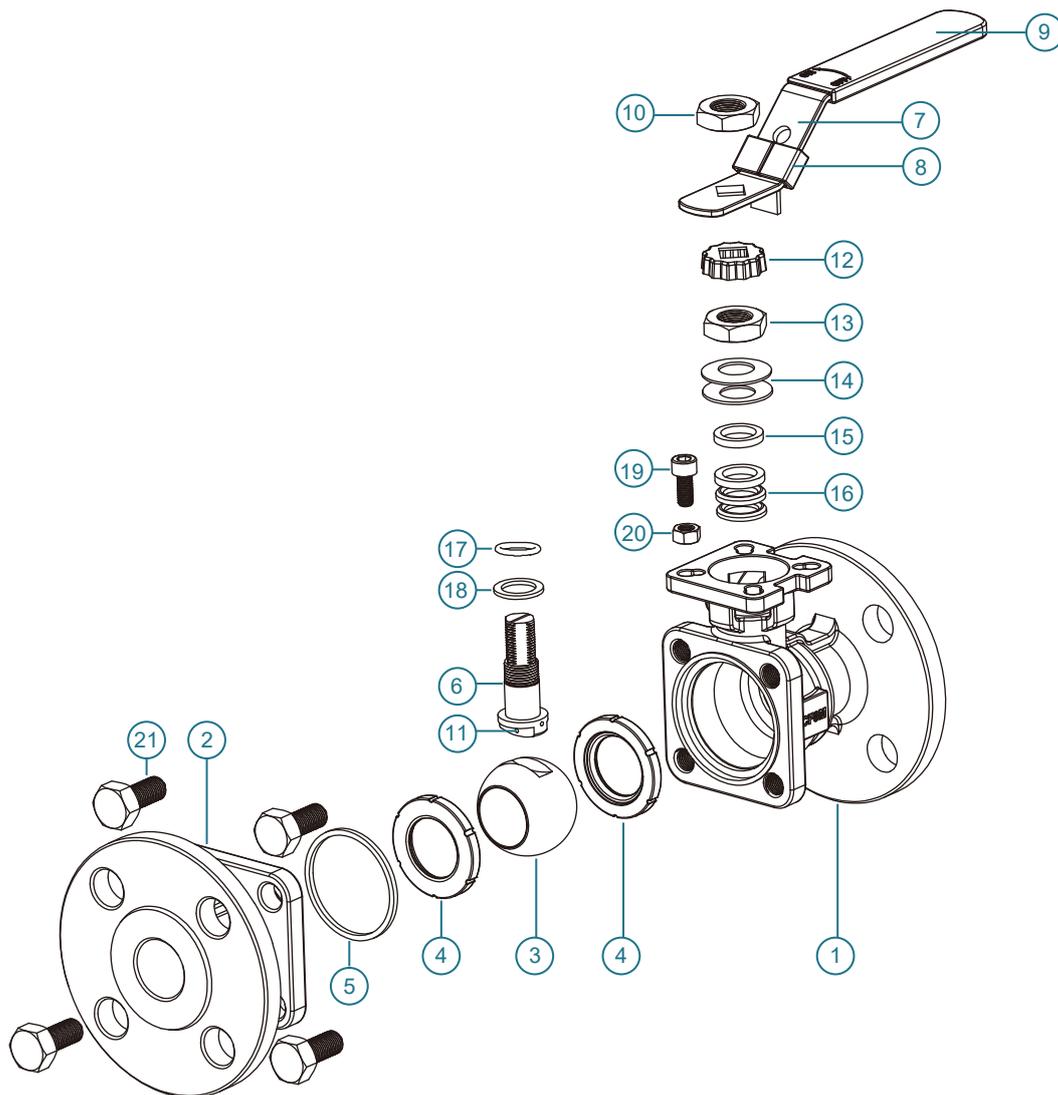
Stem nut ensures tight compression to the entire packing system.

Stainless steel packing gland transfer equal force on the packing and stem sealing.

FPM O-ring provides excellent sealing by air and vacuum applications.

Anti-static device for ball-stem-body.

Material part list DN15-DN100

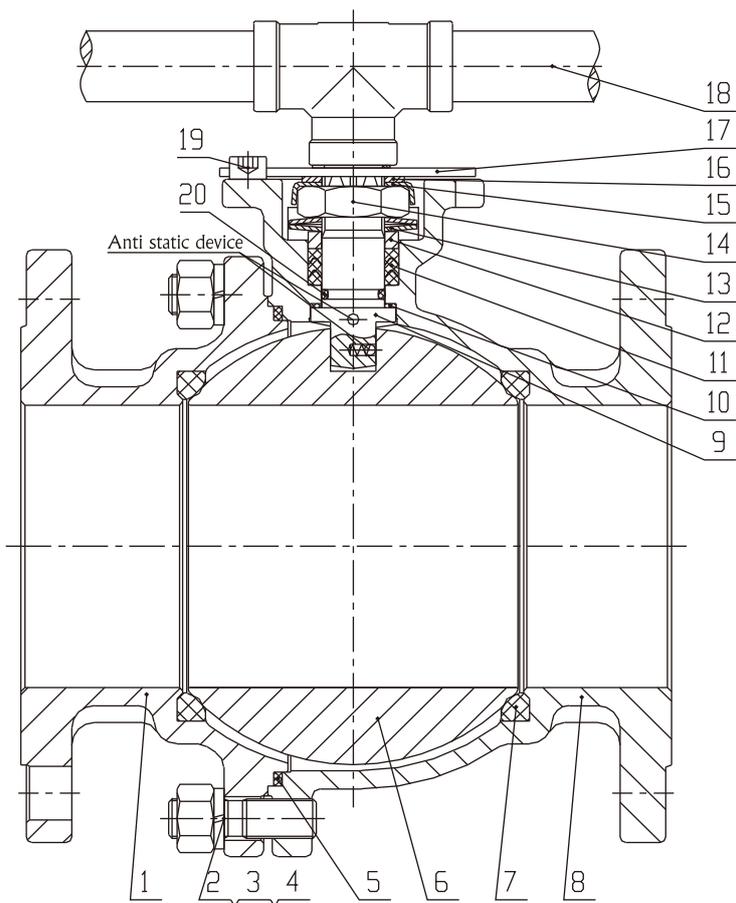


Material part list

No.	Part name	Material	No.	Part name	Material
1	Body	A351 CF8M	9	Handle sleeve	Vinyl
		A351 CF8	10	Nut	SS304
		A216 WCB	11	Anti-static device	SS316
2	Body cap	A351 CF8M	12	Lock cap	SS304
		A351 CF8	13	Nut	SS304
		A216 WCB	14	Belleville washer	SS301
3	Ball	SS316	15	Gland	SS304
		SS304	16	V-ring packing	PTFE+25% carbon
4	Seat	PTFE+25% carbon	17	O-ring	FPM
5	Gasket	PTFE+25% carbon	18	Stem sealing	PTFE
6	Stem	SS316	19	Stop bolt	SS304
		SS304	20	Nut	SS304
7	Handle	SS304	21	Body bolt	SS304
8	Locking device	SS304			

*) Please contact Coreline for other materials.

Material part list DN125-DN200

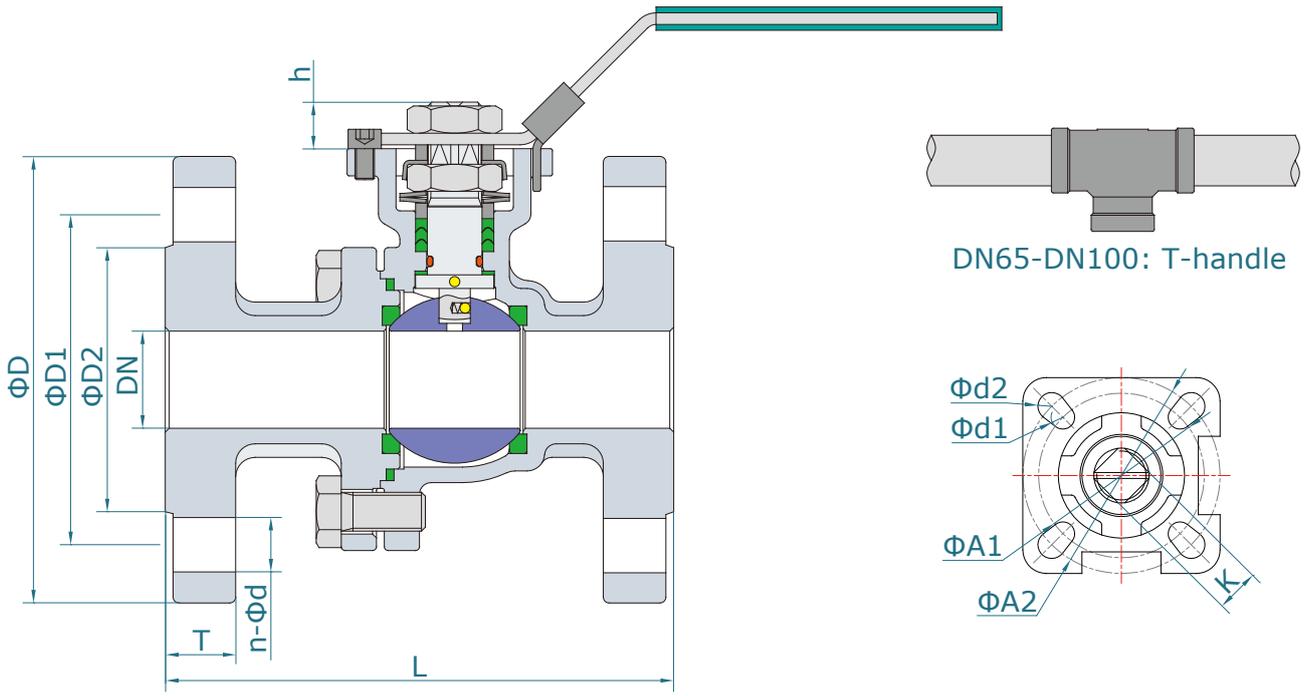


Material part list

No.	Part name	Material	No.	Part name	Material
1	Cap	A351 CF8M	9	Stem	SS316
		A351 CF8			SS304
		A216 WCB			PTFE+25%C
2	Bolt	SS304	10	Stem sealing	PTFE
3	Washer	SS304			TFM1600
4	Nut	SS304			PTFE+25%C
5	Body gasket	PTFE+25%C	11	V-ring packing	PTFE
		PTFE			TFM1600
		TFM1600			SS304
6	Ball	SS316	12	Packing gland	SS304
		SS304	13	Belleville washer	SS304
7	Seat	PTFE+25%C	14	Nut	SS304
		PTFE	15	Stop lock cap	SS304
		TFM1600	16	Washer	SS304
8	Body	A351 CF8M	17	Stopper	SS304
		A351 CF8	18	Handle	SS304
		A216 WCB	19	Stop bolt	SS304
			20	O-ring	FPM

*) Please contact Coreline for other materials.

Dimensions DN15-DN100



Dimensions

INCH	DN	PN16/40	PN16					PN40					ANSI150					
		L	D	D1	D2	T	n-φd	D	D1	D2	T	n-φd	L	D	D1	D2	T	n-φd
1/2"	15	115	-	-	-	-	-	95	65	45	16	4-φ14	108	90	60.5	35	10	4-16
3/4"	20	120	-	-	-	-	-	105	75	58	18	4-φ14	117	100	70	43	11	4-16
1"	25	125	-	-	-	-	-	115	85	68	18	4-φ14	127	110	79.5	51	12	4-16
1 1/4"	32	130	-	-	-	-	-	140	100	78	18	4-φ18	140	115	89	63.5	13	4-16
1 1/2"	40	140	-	-	-	-	-	150	110	88	18	4-φ18	165	125	98.5	73	15	4-16
2"	50	150	-	-	-	-	-	165	125	102	20	4-φ18	178	150	120.5	92	16	4-19
2 1/2"	65	170	185	145	122	18	4-φ18	185	145	122	22	8-φ18	190	180	140	105	18	4-19
3"	80	180	200	160	138	20	8-φ18	200	160	138	24	8-φ18	203	190	152.5	127	19	4-19
4"	100	190	220	180	158	20	8-φ18	235	190	162	24	8-φ22	229	230	190.5	157	24	8-19

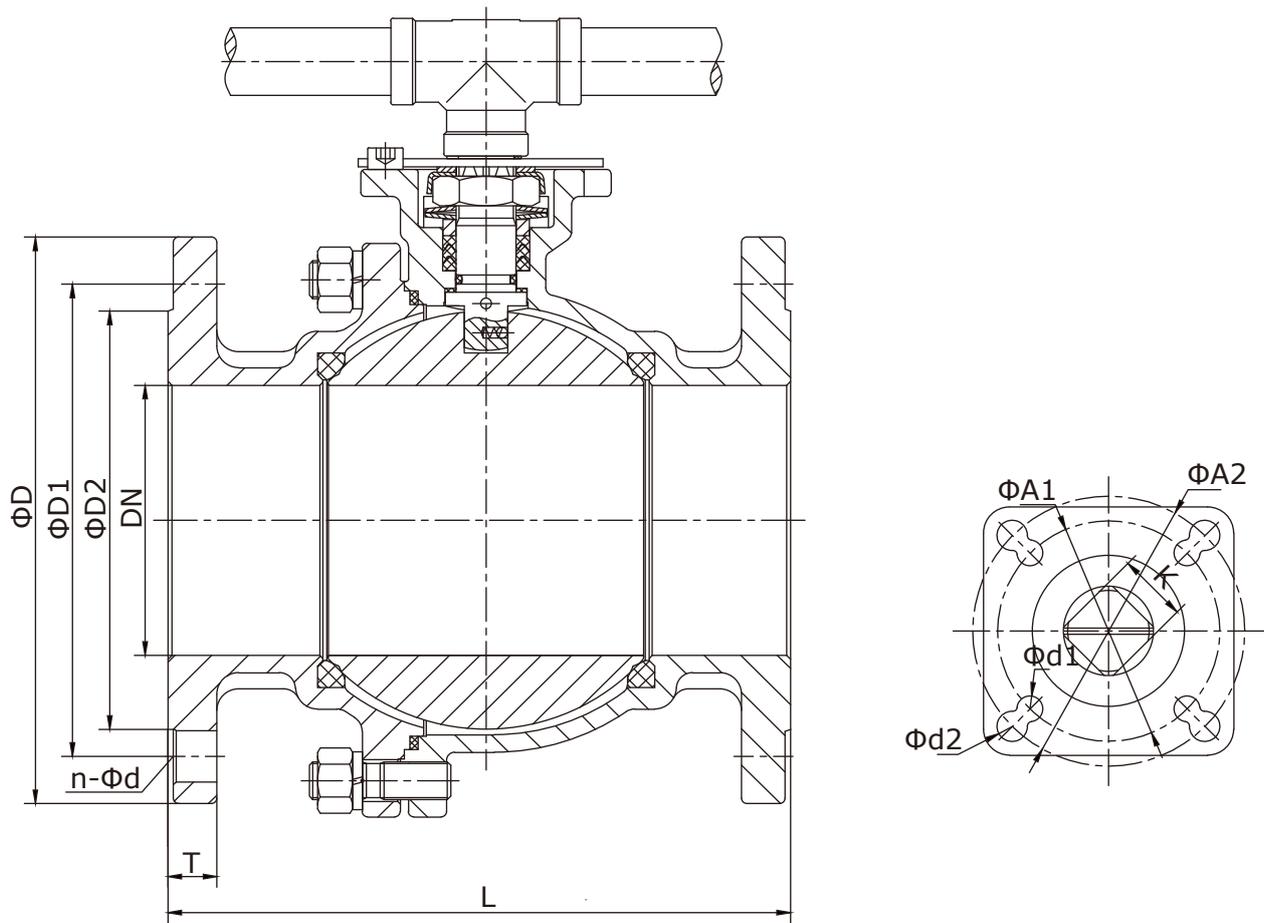
*) DN15-DN50: PN16 and PN40 shares the same dimensions.

Top flange connection

SIZE		PN16							PN40							ANSI150						
INCH	DN	ISO5211	A2	d2	A1	d1	K	h	ISO5211	A2	d2	A1	d1	K	h	ISO5211	A2	d2	A1	d1	K	h
1/2"	15	-	-	-	-	-	-	-	F03+F04	36	6	42	6	9	10	F03+F04	36	6	42	6	9	10
3/4"	20	-	-	-	-	-	-	-	F03+F04	36	6	42	6	9	10	F03+F04	36	6	42	6	9	10
1"	25	-	-	-	-	-	-	-	F04+F05	42	7	50	6	11	12	F04+F05	42	7	50	6	11	12
1 1/4"	32	-	-	-	-	-	-	-	F04+F05	42	7	50	6	11	12	F04+F05	42	7	50	6	11	12
1 1/2"	40	-	-	-	-	-	-	-	F05+F07	50	9	70	7	14	15	F05+F07	50	9	70	7	14	15
2"	50	-	-	-	-	-	-	-	F05+F07	50	9	70	7	14	15	F05+F07	50	9	70	7	14	15
2 1/2"	65	F05+F07	50	9	70	7	14	15	F07+F10	70	11	102	9	17	18	F05+F07	50	9	70	7	14	15
3"	80	F07+F10	70	11	102	9	17	18	F07+F10	70	11	102	9	17	18	F07+F10	70	11	102	9	17	18
4"	100	F07+F10	70	11	102	9	17	18	F10+F12	102	14	125	12	22	23	F07+F10	70	11	102	9	17	18

*) DN15-DN50: PN16 and PN40 shares the same dimensions.

Dimensions DN125-DN200



Dimensions

SIZE		PN16						PN40						ANSI150					
INCH	DN	L	D	D1	D2	T	n-φd	L	D	D1	D2	T	n-φd	L	D	D1	D2	T	n-φd
5"	125	325	250	210	188	22	8-φ18	325	270	220	188	26	8-φ26	356	255	216	186	24	8-φ23
6"	150	350	285	240	212	22	8-φ22	350	300	250	218	28	8-φ26	394	280	241.5	216	26	8-φ23
8"	200	400	340	295	268	24	12-φ22	400	375	320	285	34	12-φ30	457	345	298.5	267	29	8-φ23

Top flange connection

SIZE		PN16							PN40							ANSI150						
INCH	DN	ISO5211	A2	d2	A1	d1	K	h	ISO5211	A2	d2	A1	d1	K	h	ISO5211	A2	d2	A1	d1	K	h
5"	125	F10+F12	125	14	102	12	22	23	F12+F14	125	18	102	14	27	28	F10+F12	125	14	102	12	22	23
6"	150	F10+F12	125	14	102	12	27	28	F12+F14	125	18	102	14	27	28	F10+F12	125	14	102	12	27	27
8"	200	F12+F14	140	18	125	14	27	28	F14+F16	140	22	125	18	36	37	F12+F14	125	14	102	12	27	27

Technical data

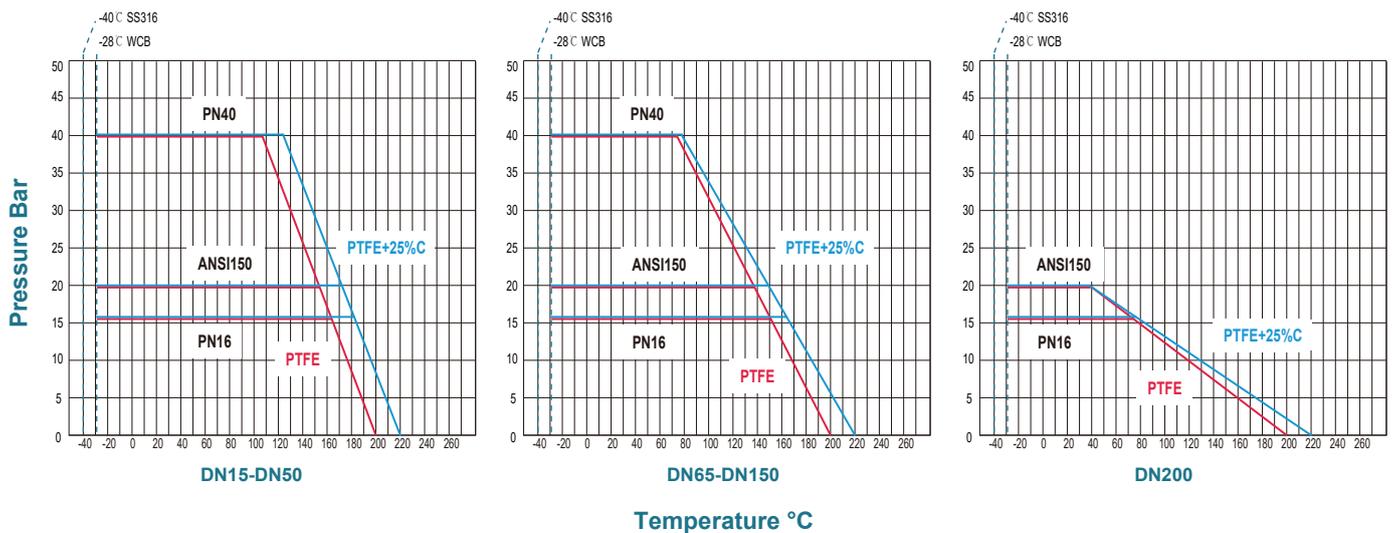
Technical data

SIZE		Kv - 90° [m³/h]	Breakaway Torque [Nm]	Weight [kg]	Pressure
DN	INCH				
15	1/2"	25	7	2.3	PN16/ANSI150
20	3/4"	45	7	3	
25	1"	75	12	3.9	
32	1 1/4"	130	20	5.6	
40	1 1/2"	220	39	7	
50	2"	380	43	9.5	
65	2 1/2"	600	70	12	
80	3"	850	80	18	
100	4"	1700	150	23.5	
125	5"	2800	350	52	
150	6"	3850	450	71	
200	8"	7300	600	123	
65	2 1/2"	600	78	13.5	PN40
80	3"	850	90	20	
100	4"	1700	170	28	
125	5"	2800	420	58	
150	6"	3850	550	80	
200	8"	7300	750	148	

Remark:

- 1) Torque value is based on PTFE+25% carbon seat WITHOUT safety. Please add a safety factor of minimum 1.3 for actuator sizing. (Test: 0bar differential pressure, ambient temperature, non-lubricating).
- 2) Kv-value rated flow coefficients (m³/h at 1 bar ΔP).
- 3) Estimated weight.

Pressure temperature curve



Remark:

The pressure-temperature curve above represents the theoretical performance of PTFE and PTFE+25% carbon materials. However, actual pipeline conditions may impact the valve's overall performance. Please evaluate and consider the specific application conditions comprehensively.

Actuators and accessories

Pneumatic actuators

CE Ex SIL3



Type:	Fig.540 double acting, Fig.541 spring return
Torque:	Max.12992Nm
Operating medium:	Dry or lubricated air, inert/non-corrosive gases
Air supply pressure:	2.5bar-8bar
Travel stop:	0°- 90°, adjustable +4° to -4°
Mounting details:	ISO 5211, Namur, VDI/VDE 3845
Body material:	Hard anodized aluminum alloy

Pneumatic accessories



Position switch box:	Fig.561/561M standard type Fig.560/560B/560C Explosion-proof type Ex marking: II 2G Ex db IIC T6 Gb, II 2D Ex tb IIIC T80 C Db
Solenoid valve:	Fig.570 standard type Fig.576 Explosion-proof type Ex marking: II 2G Ex db IIC T6 Gb
Positioner:	Fig.585 Intelligent EP type Fig.586 Electrical-Pneumatic type
Air regulator:	Air regulator Filter/Regulator-Lubricator (FR.L) Filter-Regulator-Lubricator (F.R.L)

Electrical actuators

CE Ex



Type:	Fig.550 standard Fig.550S spring return type
Torque:	10Nm and up
Ambient temperature:	-25℃~+65℃
Function:	ON/OFF, Modulating
Body material:	Hard anodized aluminum alloy

Coreline

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