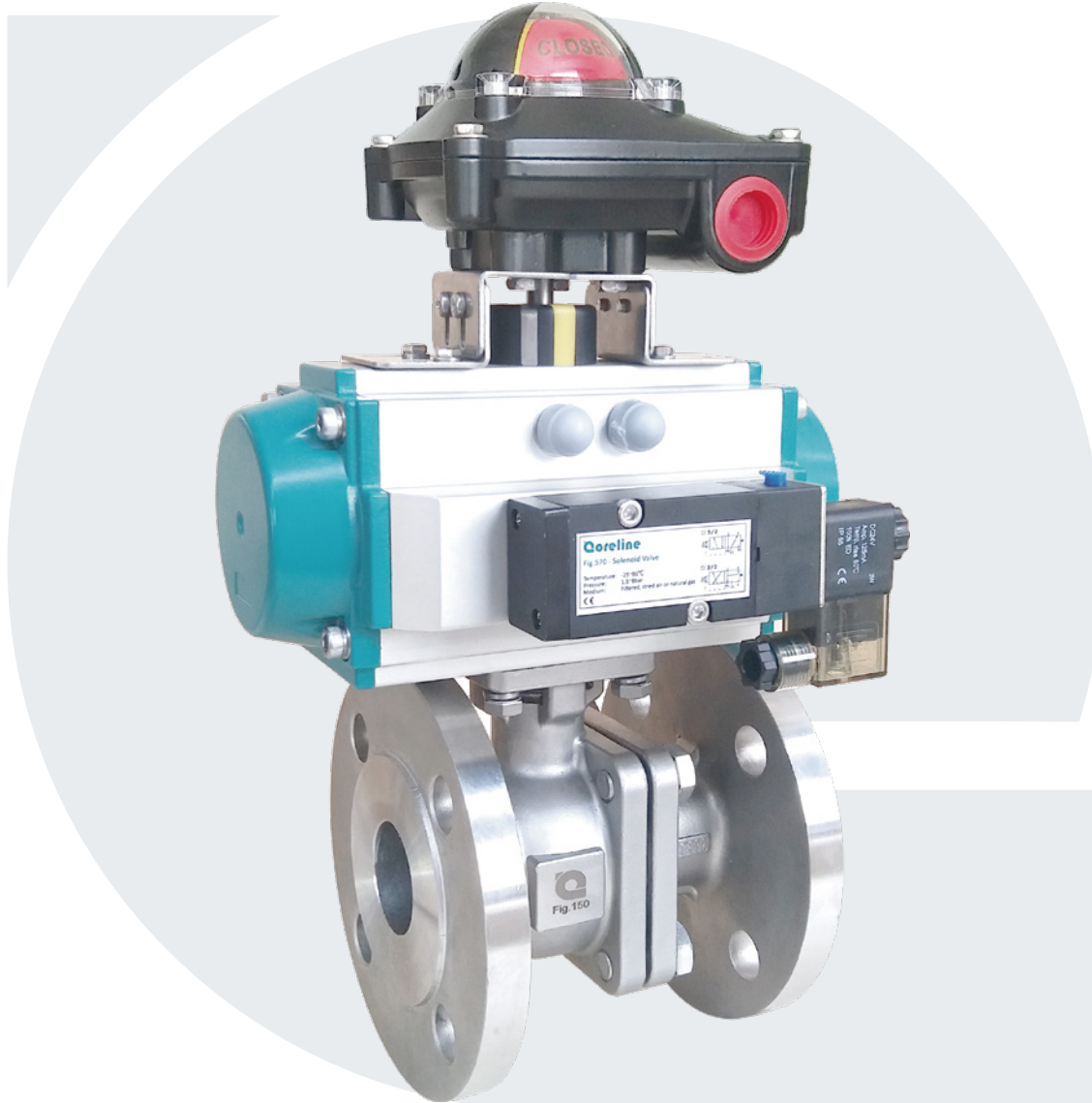
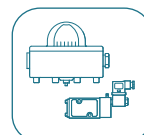
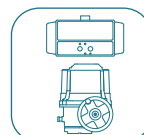
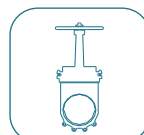
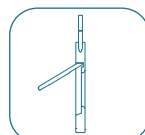
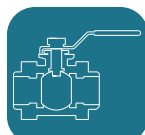
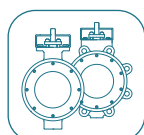
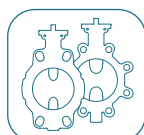


2PC Flanged ball valve

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.
- Blow-out proof stem.
- Pressure relief hole in ball slot.
- ISO5211 direct mounting pad for easy automation.
- Fire safe design.



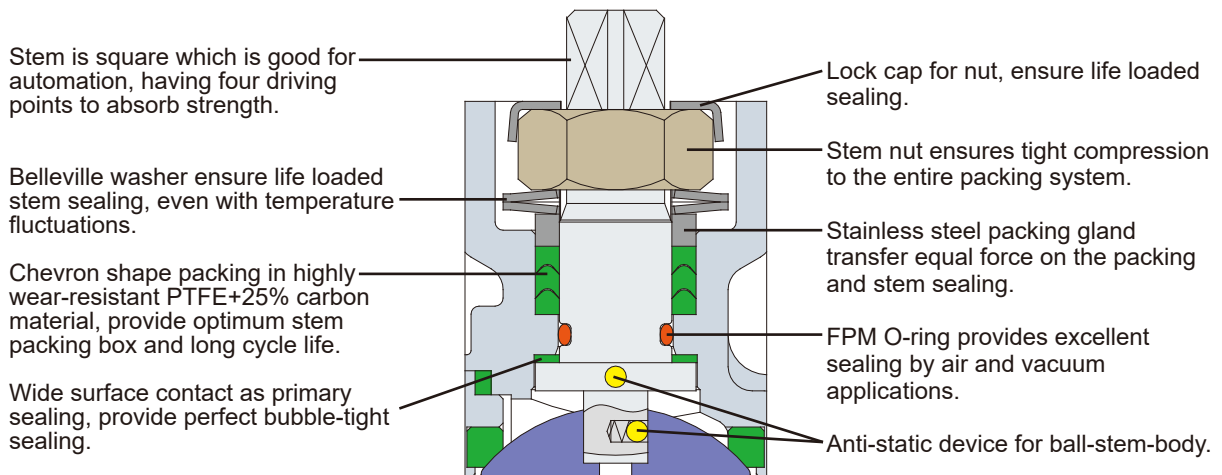
Specifications

Connection:	PN10/16 - DIN EN1092-1 ANSI150 - ASME B16.5
Size range:	DN15-DN200
Pressure rating:	PN10, PN16, ANSI150
Face to face:	PN10/16 - EN558 series 27 ANSI150 - ASME B16.10
Body:	Carbon steel, stainless steel
Seat:	PTFE with 25% carbon, RPTFE, PTFE, TFM1600

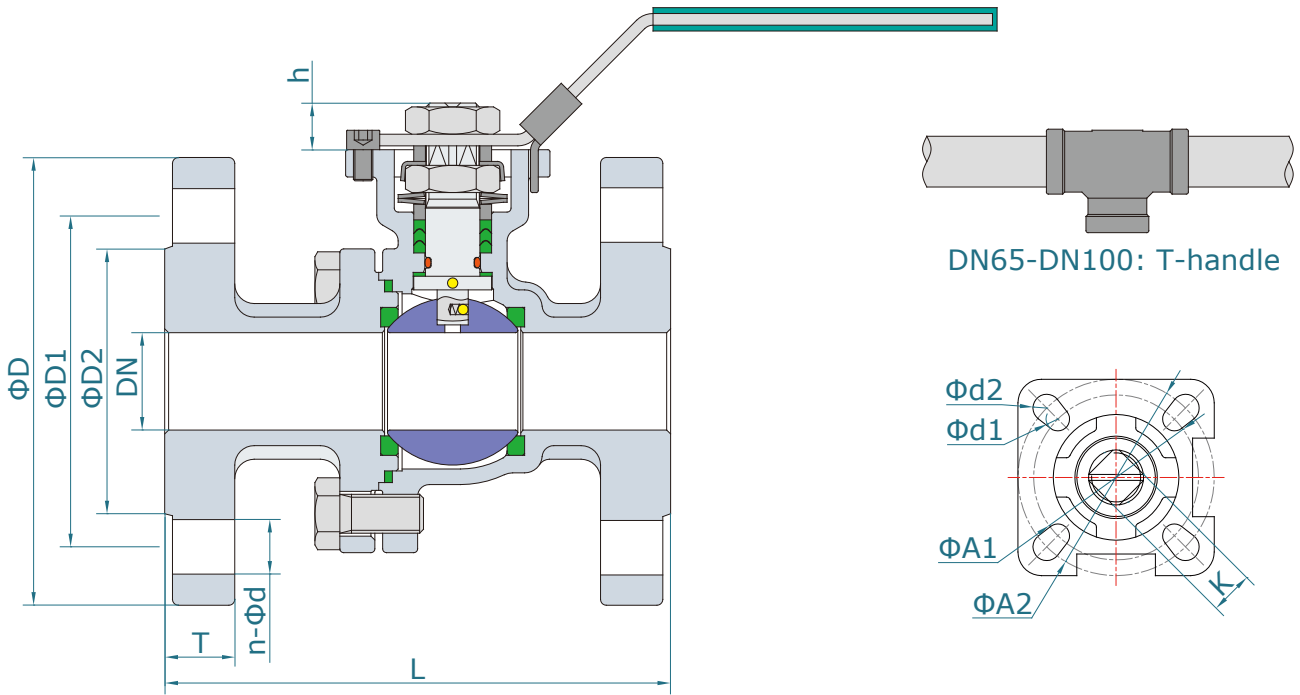


CE and EU1935/2004 (European food approval) are available for Coreline ball valves.

Stem sealing system



Dimensions DN15-DN100



DN65-DN100: T-handle

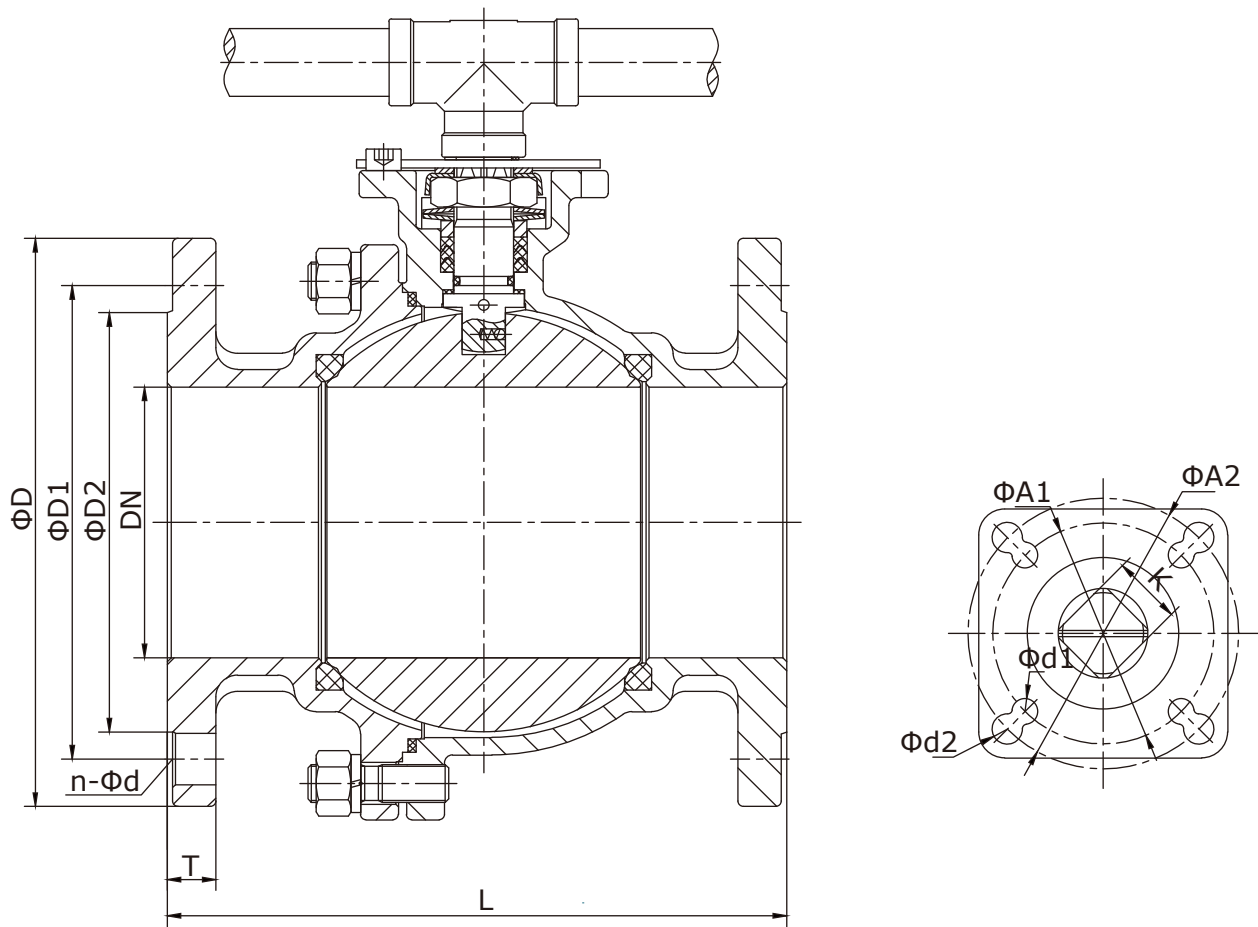
Dimensions

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	85	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

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

Dimensions DN125-DN200



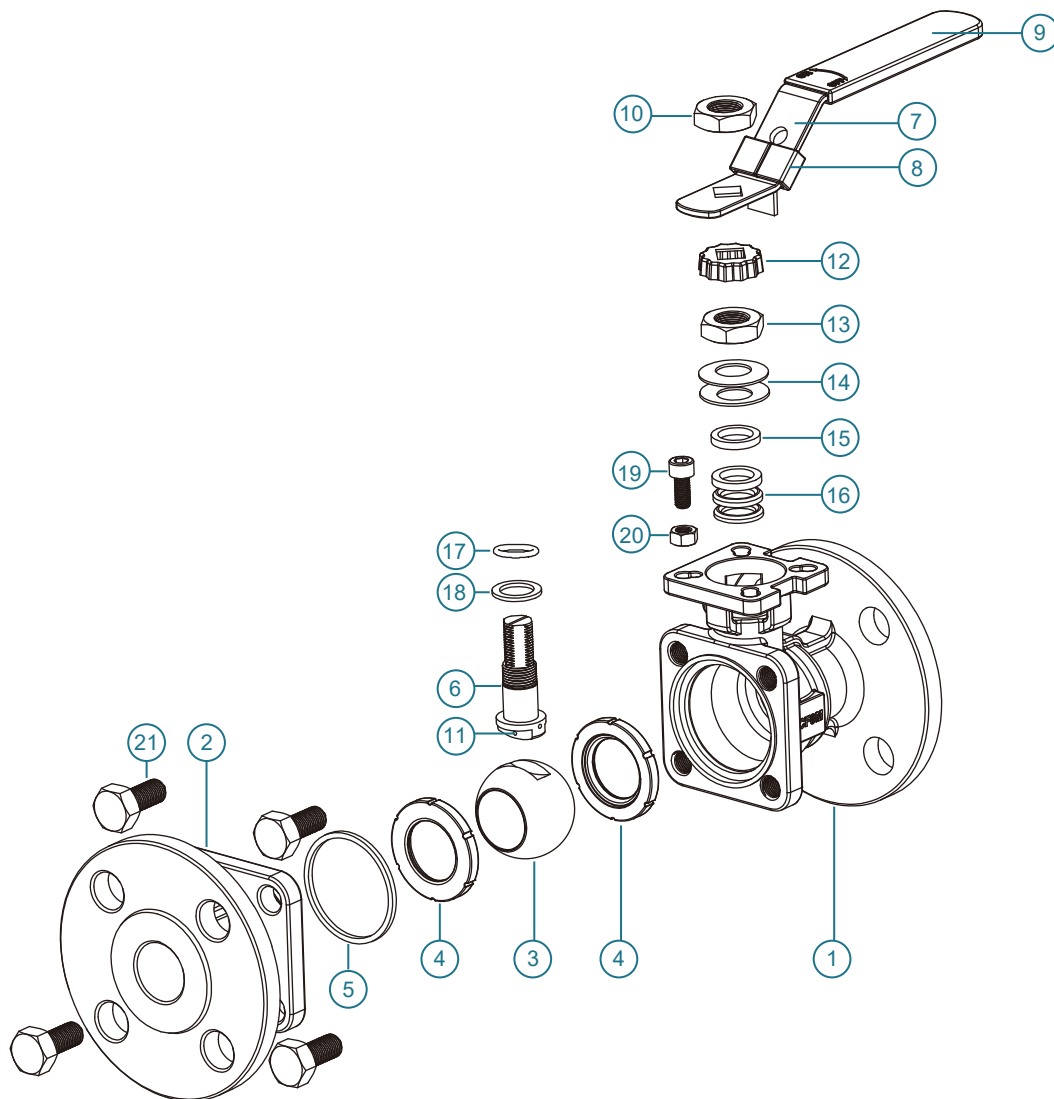
Dimensions

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

Material part list DN15-DN100

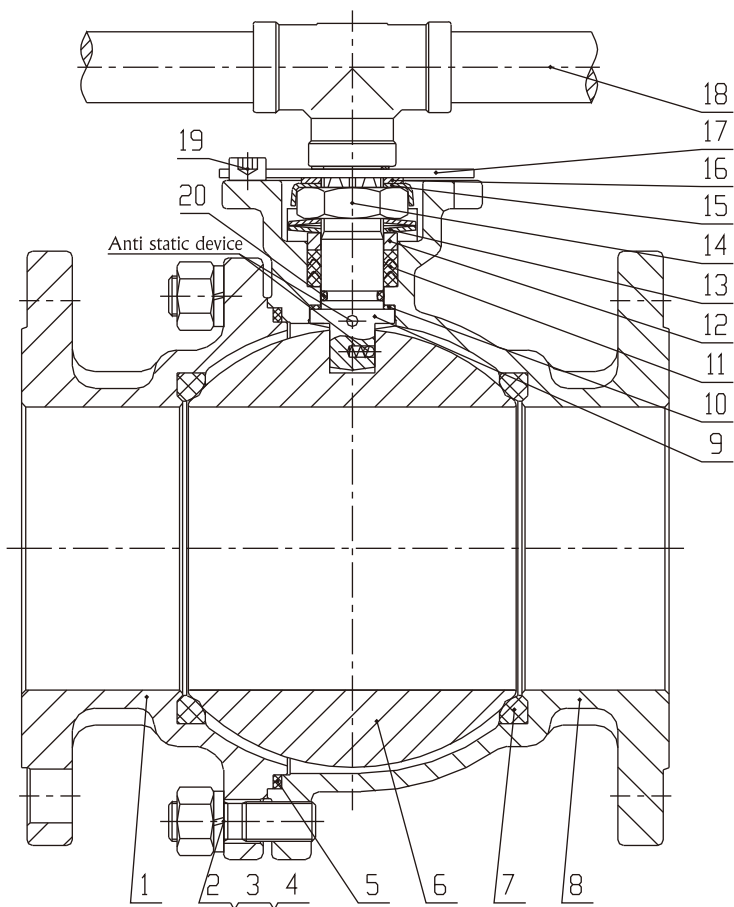


Material part list

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	1) PTFE+25% carbon
4	Seat	1) PTFE+25% carbon	17	O-ring	FPM
5	Gasket	1) 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			

1) PTFE, RPTFE, TFM1600 material available on request.

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

Technical data

Technical data

Size		1) Torque - Valve	2) Kv - 90°	Weight - PN16
INCH	DN	[Nm]	[m³/h]	[kg]
1/2"	15	8	10	2.3
3/4"	20	8	27	3
1"	25	16	48	3.9
1 1/4"	32	26	70	5.6
1 1/2"	40	50	100	7
2"	50	55	205	9.5
2 1/2"	65	95	270	12
3"	80	104	495	18
4"	100	200	870	23.5

1) Torque value is based on PTFE+25% carbon seat and it includes 30% safety factor: DN15-DN50: PN40; DN65-DN100: PN16.
(Test: 0bar differential pressure, ambient temperature, non-lubricating).

2) Kv-value rated flow coefficients (m³/h at 1 bar ΔP).

Service factor [SF]	Multiply by	Medium factor [MF]	Multiply by
ON/OFF operation	1.00	Clean, particle free, non-lubricating (water, alcohol, etc)	1.00
Modulating operation	1.20	Clean, particle free, lubricating (oils, hydraulic fluid, etc)	0.80
Once per day operations	1.20	*) Slurries or heavily corroded, solvents and contaminated systems	2.00
Once every two days or a "Plant Critical" operation	1.50	Gas, saturated steam or superheated steam, clean	1.00~1.30

Sizing torque = Basic torque * [MF] * [SF]

*) Using ball valves in contaminated systems will reduce life time.

The flow coefficient - Kv can be calculated according to the below formula:

Liquid:

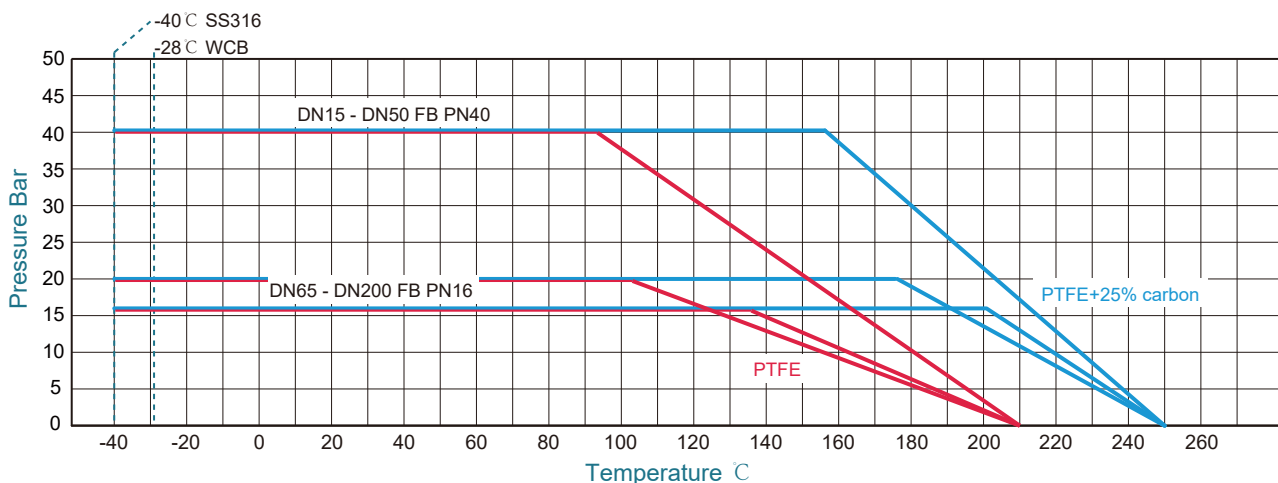
$$K_V = Q * \sqrt{\frac{W}{\Delta P}}$$

Gas:

$$K_V = \frac{V_N}{514} * \sqrt{\frac{G * T}{\Delta P * P_d}}$$

K _V :	Flow coefficient
Q:	Maximum flow volumn, m³/h
W:	Exact weight, kg/m³
ΔP:	Pressure loss, bar
V _N :	Maximum flow, Nm³/h
G:	Exact weight, kg/Nm³
T:	Absolute temperature, Kelvin
P _d :	Absolute pressure downstream, bar

Pressure temperature curve



Actuators and accessories

Pneumatic actuators

CE  SIL



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

Electrical actuators

CE 



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

Pneumatic accessories



Position switch box:	Fig.561/561M standard type Fig.560/560B/560C Explosion-proof type
Solenoid valve:	Fig.570 standard type Fig.576 Explosion-proof type
Positioner:	Fig.585 Intelligent EP type Fig.586 Electrical-Pneumatic type
Air regulator:	Air regulator Filter/Regulator-Lubricator (F.R.L) Filter-Regulator-Lubricator (F.R.L)
Pneumatic fittings:	Push-in fittings Silencers

Coreline

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