

SCORE BE100 BE120

凸轮挠曲阀 Eccentric Rotating Plug Valves

应用 Application

SCORE 的 BE100、BE120 系列凸轮挠曲阀为部分球面球阀，因此兼有球阀的一些特质，与球形阀相比，具有体积小、重量轻、容量大、可调比大等特点。是低压差、大流量流体比较经济的调节阀，适合于高粘度流体、含聚合物、纤维质、固体颗粒杂质的流体的控制。

BE100 是对夹式（带定位支耳），BE120 是法兰式。

BE100, BE120 series is eccentric segmental ball valve, so it has some facilities of ball valves. Comparing with globe valves, this valve is more compact, light weight, high capacity and large rangeability. It's more economical for the service of low pressure drop and large flow rate, and more suitable for the fluid with high viscosity, slurry, fiber and solid etc...

特点 Features

- 直通流道提供了阀门很大的流通能力。
- 整体式加长的上阀盖覆盖了广泛的流体温度（-45°C~450°C）。
- 独特的自动对准偏芯旋转阀板使阀座泄漏量较小同时关闭动态不平衡力较小。
- 三处加大尺寸的轴承为阀杆提供可靠的导向。
- 所有口径都可以选择多个规格的缩腔型阀内件。
- 阀体结构允许材质符合 NACE0175-2003, 详情请与 SCORE 联系。
- 高性能的 GF TFE 填料或柔性石墨填料（EVSP9000）加上动态补偿蝶簧（Live-loading），大大降低了阀门填料函逸散泄漏的可能，符合 API-622 低逸散规范。
- Straight through flow pattern provides greater flow capacities..
- Standard integral extension bonnet allows for a wide range of fluid temperature applications (-45°C to 450°C).
- The unique self-aligning eccentric rotating plug provides tight shut off and low dynamic forces.
- The triple, over-sized bearing system provides exceptional plug shaft guiding.
- A large variety of reduced trim options are available in all sizes.

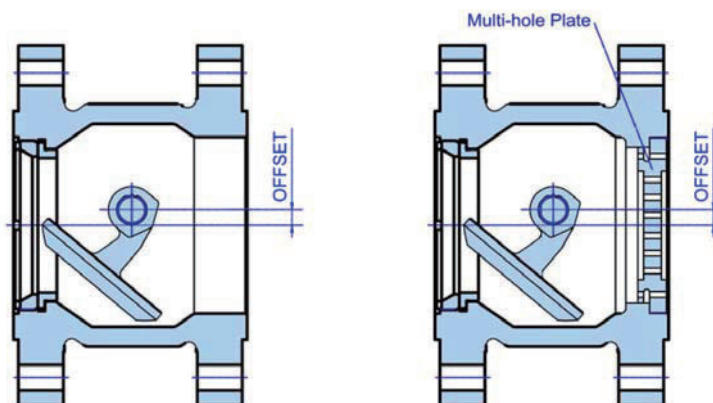
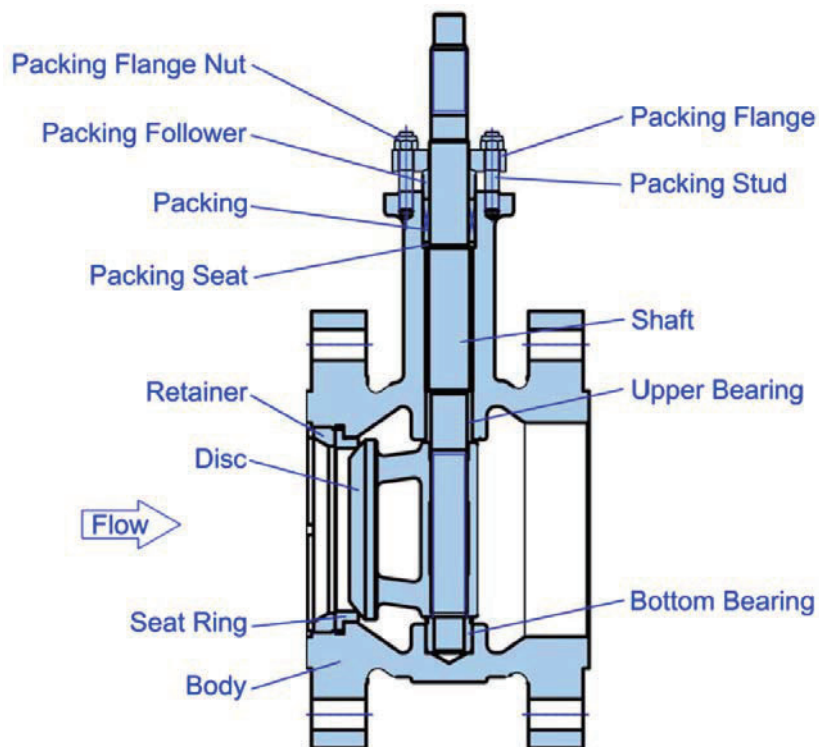


- Valve constructions allow material compatibility with NACE MR0175-2003, please contact with SCORE for details.
- High performance GF TFE packing and graphite packing (EVSP9000) with live-loading to fit with low fugitive emissions API-622.

BE100 BE120 阀门工程参数 Engineering Data of SCORE BE100 BE120

公称口径	End Connection Sizes	1"~16" (DN25~DN400)	
公称压力	Valve Body Ratings	ANSI 150#, 300#, 600# JB/T79.1-94 & HG20592-2009 PN1.0, PN1.6, 4.0, 6.3, 10.0Mpa	
连接方式	End Connection Styles	BE100: 对夹式 ; BE120: 法兰式 BE100: Wafer type, BE120: flanged type	
法兰密封面	End Connection Surface	RF (光滑面)	RF (Smooth Face)
设计标准	Design Standards	ANSI B16.34, JB/T79.1-94, HG20592-2009	
法兰距	Body Face to Face Dimensions	IEC60534	
阀内件形式	Trim Form	自动对芯偏心旋转型	Self-aligning eccentrically rotating
流量特性	Characteristics	近似线性	Modified Linear
流向	Flow Direction	标准流开 (流闭可选)	Flow to open is standard, flow to close is option
可调比系数	Rangeability	全腔型: 100:1 缩腔型: 15:1~50:1	Full bore: 100:1 Reduced bore: 15:1~50:1
额定开度	Rated Opening	50°	
阀座泄漏量	Seat Leakage	金属阀座 Solide Metal Seat:	ANSI/FCI 70.2 Class IV
		软阀座 Soft Seat:	ANSI/FCI 70.2 Class VI
上阀盖形式	Bonnet Styles	整体式 Integral Type:	-45~+450℃
		分体式 Separable Type:	-196~-45℃, +450~650℃
上阀盖填料	Bonnet Packing	聚四氟乙烯 V 型填料、聚四氟乙烯纤维、柔性石墨填料等。 Teflon V-ring, Telon Fiber, Graphite Packing (EVSP9000), ets...	
表面涂层色	Paint	艳蓝 (聚氨酯) 和其他环氧树脂处理均可, 不锈钢阀体材质时不需油漆。 Gorgeous blue RAL5018 (polyurethanes group) and other epoxy finishes is available. NO painting is standard for stainless steel body.	

BE100 BE120 本体部结构 Body Assembly Construction



Item	零件名称 Part Name	备注 Note
1	阀体 Body	
2	阀座 Seat ring	
3	阀板 Disc (Plug)	
4	压圈 Retainer	
5	填料座 Packing Seat	
6	填料 Gland Packing	参考填料材质及结构图 Refer to packing material & construction
7	填料压盖 Packing follower	
8	填料压板 Packing flange	
9	填料螺柱 Packing flange stud	
10	填料螺母 Packing flange nut	锁紧螺母 Lock nut
11	阀杆 Shaft	
12	上轴承 Upper Bearing	
13	下轴承 Lower Bearing	

BE100 BE120 材料组合 Material Combinations:

阀体材质 Body Material	A216-WCB, A217-WC6, A217-WC9, A217-C5, A352-LCB		
阀杆材质 Shaft Material	A564-630/H1100		
轴承材质 Bearing Material	A276-440C/HT		
阀板材质 Disc Material	A351-CF8/Stellite		A351-CF8/ENP
阀座材质 Seat Ring Material	A564-630/H1050	A276-316/Stellite	Reinforced Teflon
阀座允许泄漏量 Seat Leakage	Class IV	Class IV	Class VI
使用温度 Fluid Temperature ℃	WCB Body	-29~+427	-29~+427
	WC6 Body C5 Body		
	LCB Body	-45~+200	-45~+200

阀体材质 Body Material	A351-CF8, A351-CF8M, A351-CF3, A351-CF3M	
阀杆材质 Shaft Material	A638-660, A276-316, A276-316L, Nitronic 50	
轴承材质 Bearing Material	Stellite No. 6	
阀板材质 Disc Material	A351-CF8M/Stellite, A351-CF3/Stellite, A351-CF3M/Stellite	A351-CF8M/ENP, A351-CF3/ENP, A351-CF3M/ENP
阀座材质 Seat Ring Material	A276-316/Stellite	Reinforced Teflon
阀座允许泄漏量 Seat Leakage	Class IV	Class VI
使用温度 Fluid Temperature °C	-45~+450	-45~+250

阀体材质 Body Material	A217-WC6, A217-WC9
阀板材质 Disc Material	A351-CF8M/Stellite
阀杆材质 Shaft Material	A638-660, Nitronic 50
轴承材质 Bearing Material	Stellite No.6, Nitronic 60
阀座材质 Seat Ring Material	A276-316/Stellite
阀座允许泄漏量 Seat Leakage	Class IV
使用温度 Fluid Temperature °C	-45~+450

BE100、BE120 ANSI 150#~600#/PN10~PN100 各开度下的 Cv 值
Cv Values Versus Opening for BE100 BE120 ANSI 150#~600#/PN10~PN100

公称通径 Size		阀内件 尺寸 Trim Size	阀门相对开度 Percent of Disc Opening (%)									
inch	mm		10	20	30	40	50	60	70	80	90	100
1"	25	20%Red.	0.4	0.8	1.1	1.4	1.7	2.0	2.3	2.5	2.7	2.8
		40%Red.	0.5	0.9	1.4	2.0	2.7	3.5	4.2	4.8	5.2	5.6
		60%Red.	0.6	1.3	2.2	3.1	4.2	5.3	6.4	7.2	7.9	8.4
		全腔 Full	0.9	2.1	3.7	5.7	7.8	9.6	11.1	12.4	13.3	14.0
1.5"	40	40%Red.	1.1	2.1	3.3	4.7	6.5	8.4	9.9	11.2	12.3	13.2
		60%Red.	1.4	3.2	5.1	7.4	10.0	12.7	15.0	17.1	18.6	19.8
		全腔 Full	2.0	5.0	8.6	13.0	19.0	22.0	26.0	29.0	32.0	33.0
2"	50	40%Red.	1.6	3.2	5.0	7.2	9.8	12.6	15.0	17.0	18.7	20
		60%Red.	2.1	4.8	7.7	11.2	15.1	19.1	22.7	25.8	28.2	30
		全腔 Full	3.1	7.5	13.3	20.5	28.0	34.2	39.8	44.2	47.5	50
3"	80	40%Red.	4.9	9.4	14.1	20.0	26.5	33.5	39.8	45.4	50.2	54
		60%Red.	5.7	12.1	19.6	27.6	37.5	47.9	58.4	68.0	75.9	81
		全腔 Full	8.8	17.7	29.8	44.5	60.7	78.3	96.2	113.0	127.0	135
4"	100	40%Red.	8.4	16.1	24.0	34.1	45.1	57.1	67.8	77.4	85.6	92
		60%Red.	9.7	20.7	33.4	47.0	63.8	81.6	99.4	116.0	129.0	138
		全腔 Full	15.0	30.2	50.8	75.8	104.0	133.0	164.0	193.0	216.0	230
6"	150	40%Red.	18.2	34.9	52.2	74.1	98	124	147	168	186	200
		60%Red.	21.2	44.9	72.7	102.0	139	177	216	252	281	300
		全腔 Full	32.7	65.7	110.0	165.0	225	290	356	419	470	500
8"	200	40%Red.	22.0	44.2	71.9	107	150	196	241	283	317	340
		60%Red.	31.3	63.6	114.0	178	246	313	374	425	468	510
		全腔 Full	42.8	111.0	201.0	316	434	542	639	725	798	850
10"	250	40%Red.	33.7	67.6	110	164	230	300	369	432	485	520
		60%Red.	47.8	97.3	175	273	376	478	572	650	716	780
		全腔 Full	65.5	170.0	307	483	663	828	977	1,109	1,221	1,300
12"	300	40%Red.	45.3	91	148	221	309	403	497	582	652	700
		60%Red.	64.4	131	235	367	506	644	769	875	964	1,050
		全腔 Full	88.1	228	414	650	893	1,115	1,315	1,493	1,644	1,750
14"	350	Full										2,380
16"	400	Full										3,040

备注: Red.代表缩腔型, Full 代表全腔型。Red.=Reduced bore, Full=Full bore.

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