

CONTROL VALVES



VALVE SOLUTIONS for Corrosive Applications



UNPPolyvalves

Manufacturer of PFA/FEP/PTFE Lined & Plastic Valves,
Pipes & Pipe Fittings



VALVE SOLUTIONS for Corrosive Applications



ABOUT US

UNP Polyvalves is manufacturing and supplying valve solutions for corrosive applications since 1988.

Considering Indian market not having a good valve manufacturing plants for corrosive application valves in 80's and huge project requirements coming up during these years UNP promoters decided to install a corrosive application valve manufacturing plant in Vadodara, Gujarat.

UNP with its possession of highly knowledgeable and skilled work force along with technically qualified and experienced promoters having vision to grow and guide their team to be the world leading brand, market leaders and make products which are high in performance and having unmatched quality and reliability, has excelled in all these requirements of market.

Taking up the challenge UNP started its first manufacturing plant just admeasuring 1600 square feet, it started with manufacturing of solid plastic valves in very few options in terms of material of construction, type of valves and size range.

UNP started working very closely with the chemical process industries in India, Understanding their difficulties and requirements UNP always worked towards solutions to the problems in industries and earned very good name not only in domestic market but also in international market.

UNP understanding the changing market trends and requirements, entered in the business of Lined Valves and Piping systems in the year 1992 and has now become a leading brand in providing most reliable Lined Valves and Piping system to the chemical process industries.

Envisioned for quality and reliability, UNP Polyvalves aims for highest level of customer satisfaction through its solutions with commitment for excellence in all spheres of business.

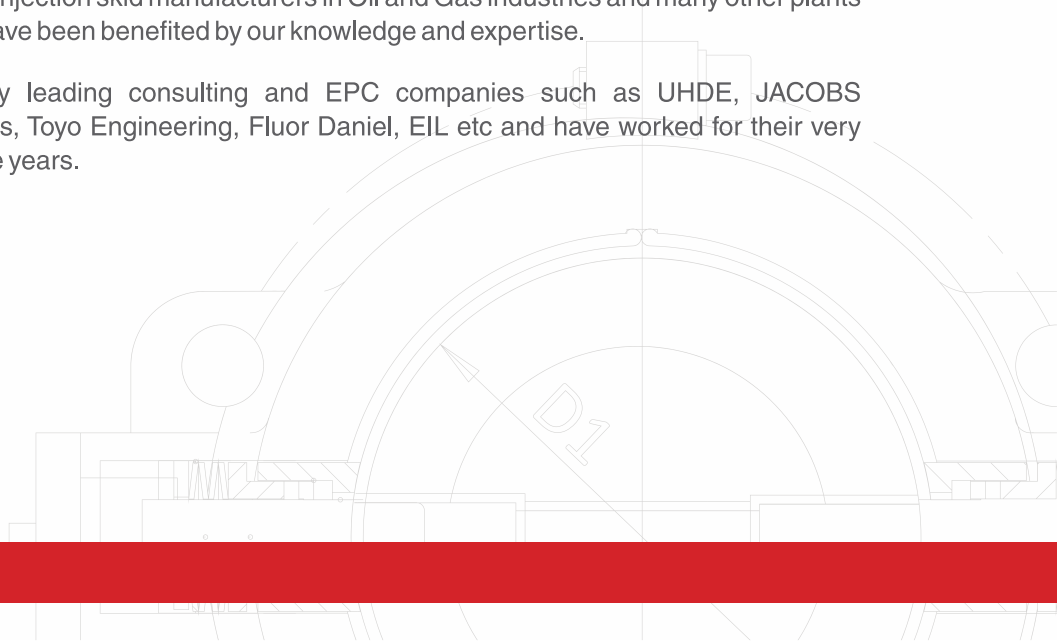
UNP today provides both Solid Plastic and Lined, Ball Valves, Plug Valves, Butterfly Valves, Diaphragm Valves, Ball Check Valves, Swing Check Valves, Sampling Valves, Double Window and Full View Sight Glasses, Y and T type strainers, Lined Pipes and Fittings with sizes ranging from ½" to 24".

UNP has marked its presence across the globe and are having establishments in countries like North America and exporting to 35+ countries through its distribution networks and to the direct end users.

ACHIEVEMENTS

UNP through its knowledge about the exact process conditions and technical expertise has helped chemical industries in resolving their corrosion problems and operational problems related to Plastic valves, Lined Valves and Piping systems. Chlor Alkali Plants, Pickling Lines and Acid regeneration plants in steel industries, Chemical injection skid manufacturers in Oil and Gas industries and many other plants having corrosion problems have been benefited by our knowledge and expertise.

UNP is approved brand by leading consulting and EPC companies such as UHDE, JACOBS Engineering, Mott McDonalds, Toyo Engineering, Fluor Daniel, EIL etc and have worked for their very prestigious project over these years.

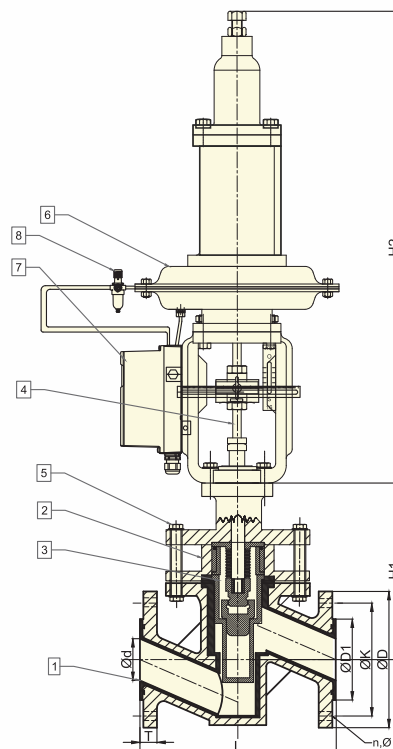


GLOBE CONTROL VALVE

GLOBE CONTROL VALVE



SECTIONAL VIEW



PART LIST

PART NO.	DESCRIPTION	MATERIAL OF CONSTRUCTION	QTY.
1	Body	ASTM A 216 GR. WCB + PFA LINED	1
2	Bonnet	ASTM A 216 GR. WCB + PFA LINED	1
3	Bellow	PTFE (STANDARD / HEAVY DUTY)	1
4	Stem	SS 316 / HASTELLOY-C	1
5	Fastners	ASTM A 193 GR. B7 / ASTM A 194 GR. 2H / SS 304	UPTO 50NB - 04NOS 80NB & ABOVE - 08NOS
6	Actuator	CI EPOXY PAINTED	1
7	Positioner	TO CUSTOMER REQUEST	1
8	Air Filter Regulator	TO CUSTOMER REQUEST	1
-	Solenoid Valve	TO CUSTOMER REQUEST	1

DIMENSIONS

Size NB (Ød)	ØD ±0.12		L ±0.12		ØD ±0.04		ØK1 ±0.04		ØK ±0.062		T +0.11/-0.00		n	Ø		H1		H2	
INCH	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM		INCH	MM	INCH	MM	INCH	MM
½"	0.49	12.5	5.11	130	3.74	95.0	1.37	35	2.36	60	0.59	15.00	4	0.63	16	6.50	165	26.30	670
¾"	0.74	19	5.90	150	4.13	105	1.69	43	2.75	70	0.59	15.00	4	0.63	16	7.16	182	26.30	670
1"	0.98	25	6.20	160	4.25	108	2.00	51	3.11	79	0.49	12.50	4	0.63	16	7.16	182	26.30	670
1½"	1.50	38	7.87	200	5.00	127	2.87	73	3.86	98	0.70	18.00	4	0.63	16	9.76	248	26.30	670
2"	1.97	50	9.00	230	5.98	152	3.62	92	4.76	121	0.70	18.00	4	0.75	19	10.10	258	26.30	670
3"	2.95	75	12.20	310	7.48	190	5.00	127	5.98	152	0.86	22.00	8	0.75	19	11.40	290	27.40	697
4"	3.93	100	13.70	350	9.01	229	6.18	157	7.52	191	0.94	24.00	8	0.75	19	13.00	331	27.40	697

NOTE : 1. ACTUATOR CAN BE PROVIDED WITH MANUAL HAND WHEEL ON CUSTOMER REQUEST
2. TOLERANCES ARE GIVEN IN INCHES

PRODUCT DESIGN AND TESTS PERFORMED

DESIGN PARAMETERS	STANDARD
DESIGN STD	API 600 / BS 1873
SHELL DESIGN	ANSI B 16.34
FACE TO FACE DIM.	EN 558 SERIES 1
FLANGE CONNECTION RATING	ANSI B 16.5, 150# / DIN PN 10
TESTING STANDARD	BS EN 12266-1
CONNECTION	FLANGED, RF

TEST PERFORMED	BS EN 12266-1
SIZES	½" TO 4"
HIGH PR. SHELL TEST HYDRO	225 PSI (15 kg/cm ²)
HIGH PR. SEAT TEST HYDRO	165 PSI (11 kg/cm ²)
LOW PR. SEAT PNEUMATIC	75 PSI (5 kg/cm ²)

SPARK TEST	KVDC
SPARK TEST	20 KVDC

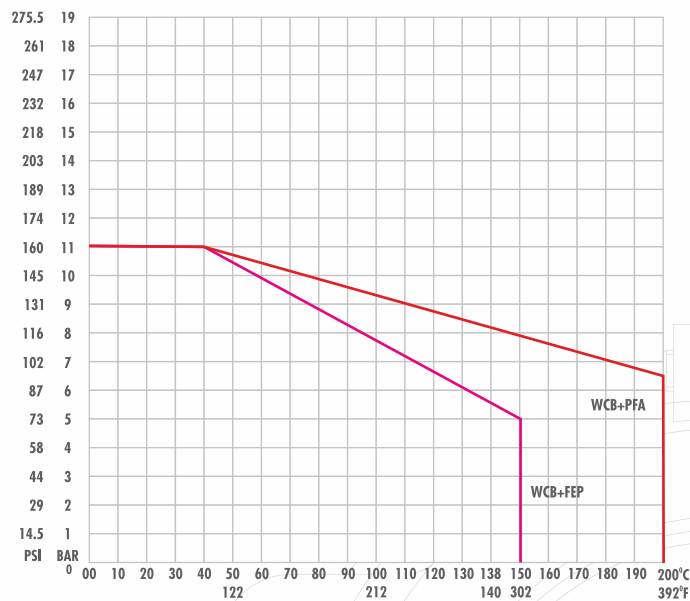
VALVE C_v & TORQUE VALUES

Size		C _v @ 100% OPENING	ACTUATOR MODEL	
INCH	MM		PN 3.5	PN 10
½"	15	4	UNP 20M LPA	UNP 20M LPA
¾"	20	7	UNP 20M LPA	UNP 20M LPA
1"	25	10	UNP 20M LPA	UNP 30M LPA
1½"	40	24	UNP 30M LPA	UNP 30M LPA
2"	50	43	UNP 30M LPA	UNP 30M LPA
3"	80	99	UNP 50M LPA	UNP 50M LPA
4"	100	153	UNP 50M LPA	UNP 60M LPA

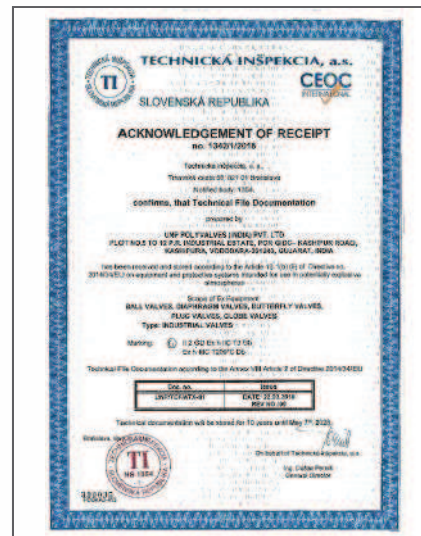
NOTE :

1. GLOBE VALVE CAN BE PROVIDED FOR SMALL C_v FROM 0.012 ONWARD
2. GLOBE VALVE CAN BE PROVIDED FOR TRAVEL OF 15MM AS WELL AS 20MM
3. GLOBE VALVE CAN BE PROVIDED WITH SINGLE ACTING AS WELL AS DOUBLE ACTING ACTUATOR

PRESSURE - TEMPERATURE GRAPH



CERTIFICATION



APPROVED

ISO 15848-1

FUGITIVE EMISSION CERTIFICATION
PFA LINED SIDE SPLIT
FULL PORT BALL VALVES
Size Range : 1/2" to 6"

APPROVED

ISO 15848-1

FUGITIVE EMISSION CERTIFICATION
PFA LINED PLUG VALVES
Size Range : 1/2" to 8"

APPROVED

ISO 15848-1

FUGITIVE EMISSION CERTIFICATION
PFA LINED BUTTERFLY VALVE
Size Range : 2" to 24"

APPROVED

DIN EN 14432:2014 PFA LINED BUTTERFLY VALVES

Size Range : 2" to 8"

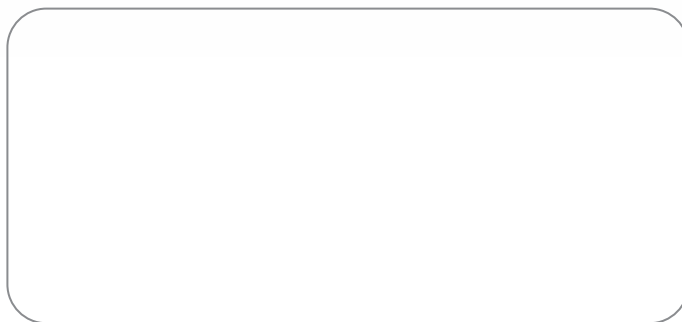
APPROVED

DIN EN 14432:2014 PFA LINED SIDE SPLIT DESIGN BALL VALVES

Size Range : 1" to 4"



Distributor



VADODARA



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- UNP Polyvalves does not assume any responsibility for the data given in this brochure. It is necessary for the customers to carry out necessary tests before selecting the MOC for their applications.

ISO 9001:2015

