DJK - Energy Houston

Master Distributor of

UNP

Torque Values & Actuator Model of Valves

Type of Valve	Size	1/2"	3/4"	1"	1-1/2"	2"	2-1/2"	3"	4"	6"	8"	10"	12"
Ball Valve Full Port, Centre Split Design	Actual Torque	15	20	20	25	35	50	50	85	220	280	350	500
	Factor of Safety	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Air Supply Pressure 4 KG/SQ.CM	Design Torque	19.5	26	26	32.5	45.5	65	65	110.5	286	364	455	650
	Single Acting Model No.	ES-100	ES-100	ES-100	PE-150	ES-200	ES-200	ES-200	ES-350	ES-950	ES-1600	ES-1600	PS-2500
		(3)	(3)	(3)	(10)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(8)
	Double Acting Model No.	ED-25	ED-40	ED-40	ED-40	PD-60	ED-100	ED-100	PD-150	ED-350	PD-500	ED-600	ED-950
Air Supply Pressure 5 KG/SQ.CM.	Single Acting Model No.	PE-60	ES-100	ES-100	ES-100	PE-150	ES-200	ES-200	ES-350	ES-950	PE-1100	ES-1600	PS-2500
		(10)	(4)	(4)	(4)	(12)	(4)	(4)	(4)	(4)	(12)	(4)	(12)
	Double Acting Model No.	ED-25	ED-40	ED-40	ED-40	PD-60	ED-100	ED-100	PD-150	PD-280	ED-350	PD-500	PD-750
Ball Valve Reduced Port-side Split Design	Actual Torque	15		15	20	28	35	35	60				
	Factor of Safety	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3				
	Design Torque	19.5	0	19.5	26	36.4	45.5	45.5	78				
Air Supply Pressure- 4 KG/SQ.CM	Single Acting Model No.	ES-100		ES-100	ES-100	PE-150	ES-200	ES-200	ES-350				
		(3)		(3)	(3)	(10)	(3)	(3)	(3)				
	Double Acting Model No.	ED-25		ED-25	ED-40	ED-40	PD-60	PD-60	PD-150				
Air Supply Pressure- 5 KG/SQ.CM	Single Acting Model No.	PE-60		PE-60	ES-100	ES-100	PE-150	PE-150	PE-280				
		(10)		(10)	(4)	(4)	(12)	(12)	(10)				
	Double Acting Model No.	ED-25		ED-25	ED-40	ED-40	PD-60	PD-60	PD-150				
	MOR Model No.	MOR 60	MOR 60	MOR 100	MOR 100	MOR 100	MOR-250	MOR-250	MOR-450	MOR-750	MOR-1000	MOR-1500	MOR-1500
Installation Cost Bracket & Couplers Considered are MS Galvanised													

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Type of Valve	Size	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
Lined Butterfly Valves	Actual Torque	30	30	30	60	110	125	180	360	480	800	1200	2018	2460	3075
	Factor of Safety	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Air Supply Pressure – 4 KG/SQ.CM	Design Torque	39	39	39	78	143	162.5	234	468	624	1040	1560	2600	3200	4000
	Single Acting	PE-150	PE-150	PE-150	ES-350	ES-600	ES-600	ES-950	ES-1600	PS-2500	PS-4000				
	Model No.	(10)	(10)	(10)	(3)	(3)	(3)	(3)	(4)	(10)	(10)				
	Double Acting	PD-60	PD-60	PD-60	ED-100	ED-200	ED-200	ED-350	ED-600	ED-950	ED-1600	PD-2500	PD-4000	PD-4000	PD-4000
	Model No.														
Air Supply Pressure – 5 KG/SQ.CM.	Single Acting Model No.	ES-100	ES-100	ES-100	ES-200	ES-600	ES-600	ES-600	ES-1600	ES-1600	PS-4000				
		(10)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(5)	(10)				
	Double Acting	ED-40	ED-40	ED-40	ED-100	PD-150	ED-200	PD-280	PD-500	PD-750	PD-1100	ED-1600	PD-4000	PD-4000	PD-4000
	Model No.														
	Mor Model No.	MOR-100	MOR-100	MOR-100	MOR-100	MOR-450	MOR-450	MOR-450	MOR-750	MOR-1000	MOR-1500	MOR-1500	MOR-3500	MOR-3500	MOR-3500
Installation Cost Bracket & Coup. in MS Galvanised															

Torque Values & Actuator Model of Valves

Type of Valve	Size	1/2"	3/4"	1"	1-1/2"	2"	3"	4"	6"
Lined Plug Valves	Actual Torque	20	25	35	50	75	140	235	525
	Factor of Safety	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Air Supply Pressure – 4 KG/SQ.CM	Design Torque	28	35	49	70	105	196	329	735
	Single Acting Model No.	ES-100	PE-150	ES-200	PE-280	ES-350	ES-950	ES-1600	PS-4000
		(3)	(10)	(3)	(8)	(3)	(3)	(3)	(8)
	Double Acting Model No	ED-40	ED-40	ED-100	ED-100	PD-150	PD-280	PD-500	ED-950
Air Supply Pressure – 5 KG/SQ.CM.	Single Acting Model No.	ES-100	ES-100	PE-150	ES-200	ES-350	ES-600	PE-1100	PS-2500
		(4)	(4)	(10)	(4)	(4)	(4)	(12)	(12)
	Double Acting Model No	ED-40	ED-40	PD-60	ED-100	PD-150	ED-200	ED-350	PD-750
	Mor Model No.	MOR 100	MOR 100	MOR 100	MOR 250	MOR 250	MOR 450	MOR 450	MOR 1000
Installation Cost Bracket & Coup. MS Galvanised									