

BRD Series

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Capacity:

4-25 ton

Stroke:

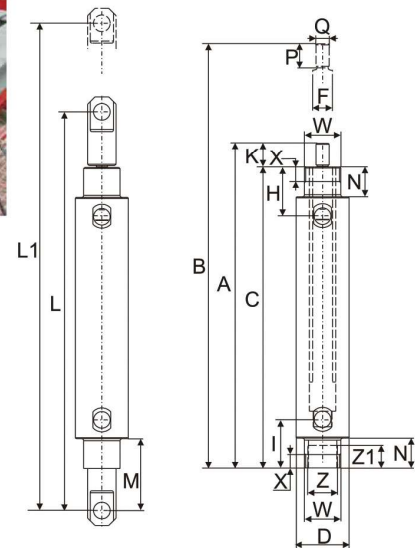
29-260mm

Maximum Operating Pressure:

700 bar

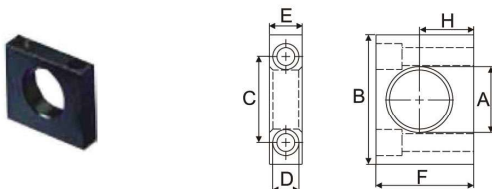
BRD Series Double-Acting, Precision and high Cycle Cylinders

- ※Double-acting operation develops force in both directions, provide maximum versatility.
- ※Designed for long life, the best choice for production applications.
- ※Collar threads, plunger threads and base mounting holes for easy fixturing. (See chart)
- ※Hard chrome plated plunger resists wear and corrosion.
- ※Wiper rings protect the piston and bore from contamination.
- ※Powder coat finish for increased corrosion resistance and antirust.
- ※Come with SQB-3/8UF female coupler & dust cap.



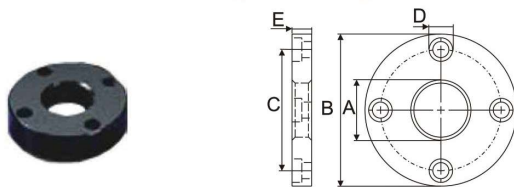
Model Number	Outer Dimension													
	Cylinder Capacity	Stroke	Max. Cyl. Cap.		Cylinder Eff. Area		Oil Cap.		Coll. Ht.	Ext. Ht.	Body Length	Out. Diam.	Cyl. Bore Diam.	Plngr. Diam.
			push	pull	push	pull	push	pull						
			ton (kN)	(mm)	(kN)	(cm²)	(cm³)	A (mm)						
BRD-41	4(35)	29	35	16	51	2.2	14	6	186	214	162	50.1	25.4	19.0
BRD-53	4(35)	80	35	16	51	2.2	40	17	237	316	213	50.1	25.4	19.0
BRD-46	4(35)	156	35	16	51	2.2	79	34	313	468	289	50.1	25.4	19.0
BRD-91	9(80)	29	80	44	11.4	6.3	32	18	223	251	198	63.5	38.1	25.4
BRD-93	9(80)	80	80	44	11.4	6.3	90	50	274	353	249	63.5	38.1	25.4
BRD-96	9(80)	156	80	44	11.4	6.3	177	98	350	505	325	63.5	38.1	25.4
BRD-910	9(80)	257	80	44	11.4	6.3	293	162	452	709	427	63.5	38.1	25.4
BRD-166	16(142)	159	142	77	20.3	10.6	323	169	389	548	359	76.2	50.8	35.0
BRD-1610	16(142)	260	142	77	20.3	10.6	528	276	491	751	461	76.2	50.8	35.0
BRD-256	25(222)	159	222	98	31.7	13.7	504	218	424	583	397	92.2	63.5	47.8
BRD-2510	25(222)	260	222	98	31.7	13.7	824	356	526	786	499	92.2	63.5	47.8

BRD - 1 Foot Mounting with Retain Nut



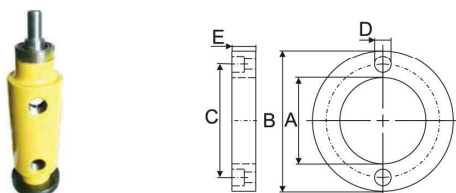
Model No.	Cyl. Cap. ton(kN)	Dimension (mm)						
		A	B	C	D	E	F	H
BRD-141	4(35)	35.1	76.2	58.0	10.5	20	57.0	31.8
BRD-171	9(80)	50.8	101.6	78.0	13.5	25	82.5	44.5
BRD-181	16(142)	66.8	127.0	95.2	20.0	35	100.0	52.4
BRD-191	25(222)	82.6	158.8	117.5	26.5	45	125.0	63.5

BRD - 2 Flange Mounting with Retain Nut



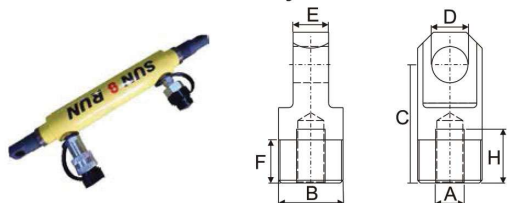
Model No.	Cyl. Cap. ton(kN)	Dimension (mm)						
		A	B	C	D	E	F	H
BRD-142	4(35)	35.1	98.6	78.5	10.4	19.0	-	-
BRD-172	9(80)	50.8	120.7	98.6	10.4	25.4	-	-
BRD-182	16(142)	66.8	143.0	115.9	13.5	35.0	-	-
BRD-192	25(222)	82.6	165.1	135.6	16.8	44.5	-	-

BRD - 3 Retain Nut



Model No.	Cyl. Cap. ton(kN)	Dimension (mm)						
		A	B	C	D	E	F	H
BRD-143	4(35)	1-3/8"-12	57	49.5	6.3	9.5	-	-
BRD-173	9(80)	2"-12	75	65.5	6.7	12.7	-	-
BRD-183	16(142)	2-5/8"-16	92	81.0	6.7	19.0	-	-
BRD-193	25(222)	3-1/4"-16	108	96.5	6.7	25.4	-	-

BRD - 4 Clevis Eye



Model No.	Cyl. Cap. ton(kN)	Dimension (mm)						
		A	B	C	D	E	F	H
BRD-150	4(35)	1/2"-20	1-1/8"-20	52.4	16	15.9	19.1	23.8
BRD-151	9(80)	3/4"-16	1-11/16"-18	57.1	20	25.4	25.4	23.8
BRD-152	16(142)	1-1/8"-12	2-3/16"-16	77.8	25	31.8	25.4	30.2
BRD-153	25(222)	1-1/2"-12	2-3/4"-16	77.8	32	38.2	25.4	27.0

(See chart below for mounting dimensions L, L1 and M)

Model Number	Outer Dimension							Thread Dimension						
	Base to Adv. Port	Top to Ret. Port	Plunger Protrusion	Clevis Eye Mounting Dim.			Neck Length	Plngr. Thread Length	Plngr. Ext. Thread	Collar Thread	Collar Thread Length	Int. Base Thread	Int. Base Thread Length	Wt.
				L	L1	M								
				(mm)										
BRD-41	48	48	24	257	286	41	29	19.1	1/2"-20	1-3/8"-12	11	1-1/8"-20	9	2.0
BRD-43	48	48	24	307	387	41	29	19.1	1/2"-20	1-3/8"-12	11	1-1/8"-20	9	2.6
BRD-46	48	48	24	384	540	41	29	19.1	1/2"-20	1-3/8"-12	11	1-1/8"-20	9	3.6
BRD-91	58	58	25	295	324	38	38	19.1	3/4"-16	2"-12	14	1-11/16"-18	14	3.0
BRD-93	58	58	25	347	426	38	38	19.1	3/4"-16	2"-12	14	1-11/16"-18	14	4.2
BRD-96	58	58	25	423	579	38	38	19.1	3/4"-16	2"-12	14	1-11/16"-18	14	5.6
BRD-910	58	58	25	525	782	38	38	19.1	3/4"-16	2"-12	14	1-11/16"-18	14	7.3
BRD-166	74	74	30	491	650	52	54	25.4	1-1/8"-12	2-5/8"-16	22	2-3/16"-16	24	10.2
BRD1610	74	74	30	593	853	52	54	25.4	1-1/8"-12	2-5/8"-16	22	2-3/16"-16	24	14.5
BRD-256	89	89	27	530	689	53	70	25.4	1-1/2"-12	3-1/4"-16	29	2-3/4"-16	26	16.0
BRD-2510	89	89	27	631	892	53	70	25.4	1-1/2"-12	3-1/4"-16	29	2-3/4"-16	26	20.3