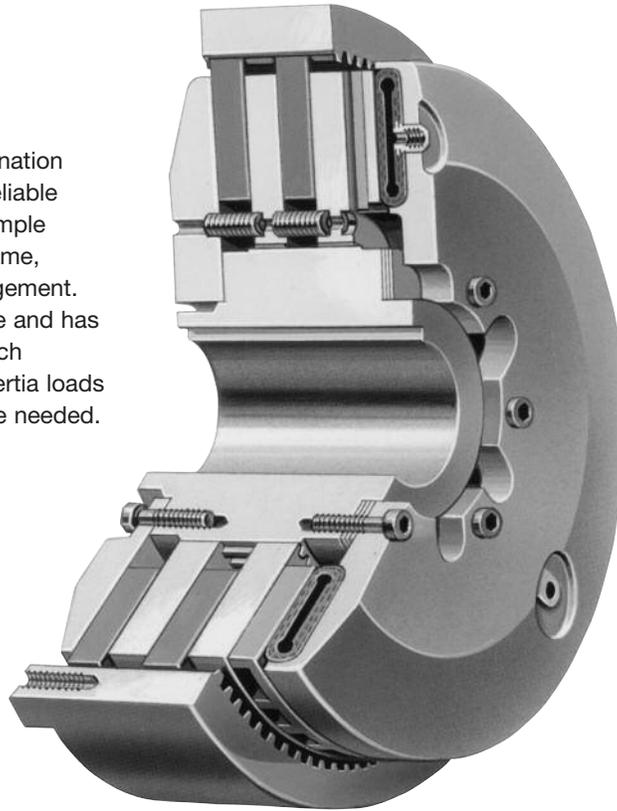


Standard Vent Clutches

Coupling Clutches

The Wichita Standard Vent Combination Clutch-Coupling is designed for reliable in-line power transmission. The simple air-tube design, with small air volume, speeds engagement and disengagement. It is unaffected by centrifugal force and has no self-energization like drum clutch designs. Ideally suited for large inertia loads where smooth controlled starts are needed.

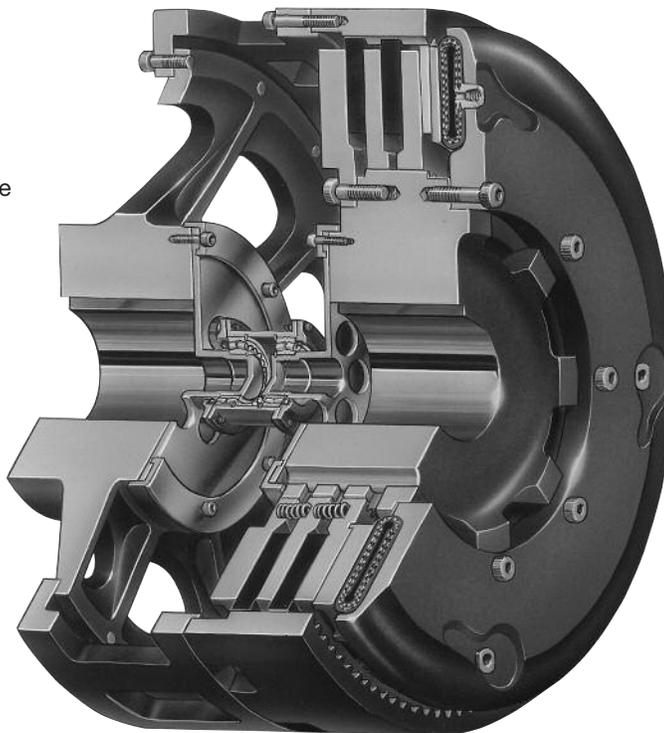
See pages 131 thru 135.



Grinding Mill Clutches

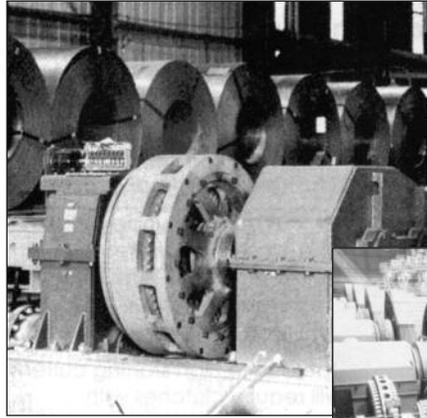
Wichita Grinding Mill Clutches are specially designed to provide quick, smooth starts with limited current surge for heavy duty grinding mills. The clutch is adaptable to remote control allowing centralized operation through simple air or electric circuits.

See pages 136 thru 143.

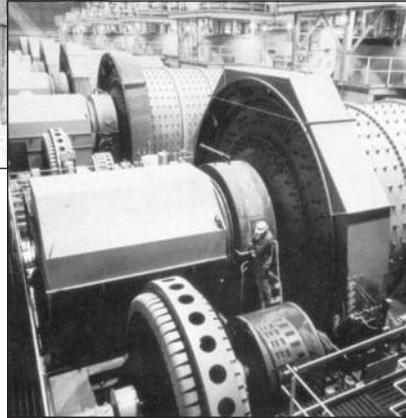


Standard Vent Clutches

Typical Applications



Wichita ATD-342 Clutches allow smooth acceleration of coil transporter.



Reliable, trouble-free Wichita Standard Vent Clutches handle maximum loads on drilling rigs.

Wichita Grinding Mill Clutches provide shock-free start-up of large inertia loads.

Application Guidelines

Clutch selection is made by knowing the application horsepower/100 RPM, the available air pressure, required torque and

the clutch heat horsepower. The Requirements Table (Chart A) gives application factors ranging from light duty (the A group) to extra heavy duty (the D group).

Chart A

Field of Application	Group A	Group B	Group C	Group D
Pumps		Centrifugal compressors	Reciprocating compressors over 2 cylinders, centrifugal fans & blowers	Reciprocating compressors one or two cylinders
Agitators	Liquid	Semi-solid	Solids	
Brick manufacturing			Brick press, extruder, pug mill	
Can & bottling machine		Bottle-can feeders, filling, mixers		
Engine driven equipment			Crane, hoist, engine	Crowd
Grinding mills			Ball-rod-sag-pebble	Crushers, shakers
Lumber processing		Yarder	Carriages, conveyers	Chipper, logger
Marine		Propulsion clutch CP wheel	Shaft brakes, propulsion reversing type, anchor winch	
Bulk material handling	Conveyors evenly loaded, line shaft evenly loaded	Feeders	Elevators	
Metal production & metalforming		Coilers, slitters, press brake, non-gearred press, geared press	Draw bench, rolling mill, shear, back geared press, deep draw press, transfer press, toggle press	Hammer mill, forming press, forging press, header press, knuckle press
Paper industry dryer sections & calenders consult factory			Fourdrinier to 500 FPM, paper mill plane & smoothing press	Fourdrinier to 1800 RPM press selections, calenders & dryers
Petroleum production		Drilling & service rig master clutches, compound clutches, rotary, drum		Mud pumps, PTO clutches
Rubber manufacturing	Transfer machines evenly loaded		Banberry mixer, drum mixer, extruder, calender	Centrifuge



Standard Vent Clutches

Coupling and Grinding Mill Clutches

Calculations

$$\text{Engine torque} = \frac{(\text{HP}) (63,000)}{\text{RPM}} = \frac{(325) (63,000)}{1800}$$

$$\text{Engine torque} = 11,375 \text{ lb.in.}$$

Clutch torque required while slipping:

$$\text{Clutch torque} = \frac{(WR^2) (\text{RPM}) (\pi) \text{ lb.in.}}{(g) (t_s) (2.5)}$$

W = Weight to be accelerated lb.

R = Radius of gyration ft.²

g = Acceleration of gravity ft./sec.²

t_s = Time of slip, in seconds

T_c = Clutch torque = 11,707 lb.in.

Clutch heat HP is 1/2 of the total area in the diagram.

$$\text{Clutch heat HP} = \frac{(T_c) (\text{input RPM})}{63,000} (1/2)$$

$$\begin{aligned} \text{Clutch heat HP} &= \frac{(11,375) (1,800)}{63,000} (1/2) \\ &= 162.5 \text{ HP} \end{aligned}$$

From Clutch Heat Horsepower (Chart B) for a 6 second start:

$$\text{HP} / \text{in.}^2 = .4$$

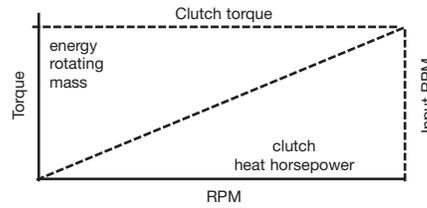
$$\text{Area required} = \frac{162.5}{.4} = 406 \text{ in.}^2$$

To properly select a clutch for this rock crusher application, the following information is required:

1. Application horsepower
2. Required air pressure
3. Required torque
4. Clutch heat horsepower
5. Shaft diameter

The Specification Table on pages 126-127 gives application factors ranging from light duty (the A group) to extra heavy duty (the D group). This chart will give the initial selection which is then compared with the selection made using the Clutch Heat Horsepower Chart and the Clutch Area Chart.

How to select



1. The area required is 406 inches. Consult the column head "Lining Area" in Specification Table (pages 126-127). Applicable clutches chosen are:

ATD-218, 528 in.²; ATD-124H, 574 in.²;
ATD-314H, 504 in.²

2. Determine the application horsepower necessary:

$$\text{HP}/100 \text{ RPM} = \frac{325}{1,800} (100) \text{ HP}$$

$$\text{HP}/100 = 18 \text{ HP}/100 \text{ RPM}$$

Clutches selected with this application horsepower are as follows:

ATD-214H 18 HP/100 RPM, ATD-314H
27 HP/100 RPM, ATD-118 21 HP/100 RPM.

The ATD-314 is selected as having both sufficient area and torque with minimum diameter.

$$\begin{aligned} \text{Contact velocity} &= \frac{(\text{clutch size}) (\pi) (1,800)}{12} \\ &= 6,597 \text{ ft./min.} \end{aligned}$$

Ductile material required.

Note: This application example is for preliminary sizing only. Contact a Wichita Sales Engineer or the factory for final selection.

Use engine torque for calculations.

When selecting the proper clutch, heat must be considered. When a clutch is slipped under load, heat is generated within the clutch. This heat as shown to the left is equal to the energy of the mass that was accelerated to speed by the clutch.

In applications where thermal requirements are of concern, consult factory for special ventilated and super ventilated clutch options.



Standard Vent Clutches

Coupling and Grinding Mill Clutch Selection

Specifications

Chart C

Model Size ATD—	Slip Torque lb.in. at 100 PSI .3 CF	Max. Horsepower Per 100 RPM				Recom- mended Clear- ances Inches	Hi-Spd. Airtube Max. Speed RPM	Total Wt. lb.	Total WR ² lb. ft. ²	Driving Ring & Friction Disc		Lining Area in. ²
		Duty								Wt.	WR ²	
		A	B	C	D							
108 STVC	7,000	11.1	8	4	2	1/16-1/8	3,000	36	3	8	1.2	56
208 STVC	14,000	22.2	16	8	4	3/32-5/32	3,000	58	38	18	1.8	112
308 STVC	21,000	33.3	24	12	6	3/32-5/32	3,000	80	5.1	28	2.4	168
111 STVC	15,900	25	18	9	5	1/16-1/8	2,800	65	11	20	5	114
211 STVC	31,800	50	37	18	10	3/32-5/32	2,800	106	18	37	10	228
311 STVC	47,700	75	55	27	15	3/32-5/32	2,800	147	25	54	15	342
114H STVC	35,800	56	40	20	9	1/16-1/8	2,200	165	55	38	14	168
214H STVC	71,600	113	80	40	18	3/32-5/32	2,200	220	75	58	24	336
314H STVC	107,400	170	120	60	27	3/32-5/32	2,200	275	85	78	34	504
116 STVC	40,400	64	45	22	11	1/16-1/8	2,200	189	62	41	23	228
216 STVC	80,800	134	90	44	22	3/32-5/32	2,200	272	87	90	47	456
118 STVC	64,500	102	75	35	21	1/16-1/8	2,000	266	95	47	33	264
218 STVC	129,000	204	150	70	42	3/32-5/32	2,000	390	150	65	63	528
118H STVC	75,000	119	85	40	21	1/16-1/8	1,650	290	103	47	33	264
218H STVC	150,000	238	175	80	42	3/32-5/32	1,650	415	160	65	63	528
318H STVC	225,000	357	260	120	63	1/8-3/16	1,650	540	215	83	153	792
221STVC	175,300	278	195	97	49	3/32-5/32	1,650	500	256	127	114	724
321 STVC	263,000	417	300	150	84	1/8-3/16	1,650	735	360	210	185	1,086
124H STVC	153,700	243	180	90	40	3/32-5/32	1,400	580	390	90	100	574
224H STVC	307,400	487	360	180	80	1/8-3/16	1,400	790	535	180	200	1,148
324H STVC	461,100	731	540	270	120	5/32-7/32	1,400	1000	680	270	300	1,722
227 STVC	345,000	548	383	192	96	1/8-3/16	1,400	890	700	200	275	1,460
327 STVC	517,500	821	600	300	165	5/32-7/32	1,400	1,200	945	265	350	2,190
230H STVC	654,000	1,038	760	380	200	1/8-3/16	1,100	1,375	1,350	265	460	1,664
330H STVC	981,000	1,557	1,150	570	300	3/16-1/4	1,100	2,500	2,325	380	570	2,496
336 STVC	1,524,000	2,418	1,800	885	495	3/16-1/4	900	2,700	3,770	540	1,260	3,450
342 STVC	2,179,000	3,458	2,550	1,275	705	3/16-1/4	800	3,600	7,700	1,100	3,375	4,212
248 STVC	2,805,000	4,452	3,200	1,600	915	1/8-3/16	700	4,500	11,200	785	3,130	4,020
348 STVC	4,207,500	6,678	4,800	2,400	1,370	3/16-1/4	700	5,590	13,850	1,140	4,360	6,030
260 STVC	5,950,000	9,440	6,950	3,470	1,940	3/16-5/16	550	7,525	24,700	1,665	9,400	7,240
360 STVC	8,925,000	14,160	10,400	5,200	2,900	1/4-3/8	550	9,350	32,250	2,500	14,020	10,850
460 STVC	11,900,000	18,880	13,900	6,940	3,880	5/16-7/16	550	12,000	41,000	2,900	16,615	14,480
560 STVC	14,875,000	23,611	16,528	8,264	4,132	1/2-9/16	550	11,750	—	—	—	18,100
372 STVC	13,965,000	22,167	15,517	7,758	3,879	5/16-7/16	400	—	—	—	—	14,460

Note: Maximum air pressure – 100 PSI



Standard Vent Clutches

Coupling and Grinding Mill Clutch Selection Specifications

Inflation Coefficient Operating Air Pressure						Exhaust Coefficient Operating Air Pressure								
50 PSI		75 PSI		100 PSI		50 PSI			75 PSI			100 PSI		
K	U	K	U	K	U	R	E	V	R	E	V	R	E	V
15,800	2.2	7,100	2	265	1.2	60	.016	1	525	.02	1.6	240	.02	1.4
890	1.7	880	1.6	5,100	2.2	1,000	.032	2	8,200	.04	2.8	4,930	.048	2.8
456	2	825	2.2	300	1.75	3,180	.068	3	8,270	.076	3.5	8,000	.088	3.7
456	2	825	2.2	300	1.75	3,180	.068	3	8,270	.076	3.5	8,000	.088	3.7
9,600	3.1	1,560	2.4	9,600	3.8	44	.068	1.4	40	.072	1.4	34	.08	1.4
1,350	2.5	1,350	2.5	1,350	2.5	113	.052	1.6	36	.064	1.3	630	.076	2.5
1,350	2.5	1,350	2.5	1,350	2.5	71	.07	1.6	26	.077	1.3	490	.084	2.5
145	1.8	90	1.6	87	1.6	360	.096	2.5	240	.112	2.5	270	.136	2.8
145	1.8	90	1.6	87	1.6	360	.096	2.5	240	.112	2.5	270	.136	2.8
185	2	150	2	93	1.8	120	.104	2.1	140	.128	2.4	146	.158	2.7
170	2	250	2.2	160	2	124	.112	2.2	92	.128	2.2	76	.152	2.3
115	2	125	2	111	2	132	.12	2.3	89	.144	2.3	6.1	.168	2.3
25	1.6	22	1.6	26	1.8	20	.224	2	20	.256	2.2	19	.308	2.5
28	1.8	22	1.8	20	1.8	24	.264	2.4	10	.304	2.3	9.9	.352	2.2

E

Standard Vent Clutches

Coupling and Grinding Mill Clutch Selection Specifications

Model Size	ATD- Clutch Mounting Options	Assembly Number	Drawing Number	Model Size	ATD- Clutch Mounting Options	Assembly Number	Drawing Number	
STV 108	Clutch only	6-208-100-110-0	-900-9	STV 118H	Clutch only	6-119-100-100-0	-900-9	
	Clutch w/ SDA	6-208-100-302-0	-901-9		Clutch w/ QCDA	—		
STV 208	Clutch only	6-208-200-103-0	-900-9	STV 218H	Clutch w/ SDA	—		
	Clutch w/ SDA	6-208-200-309-0	-901-9		Clutch only	6-119-200-100-0	D-3709	
STV 308	Clutch only	6-208-300-101-0	-900-9	STV 318H	Clutch w/ QCDA	6-119-200-106-0	-106-9	
	Clutch w/ SDA	6-208-300-304-0	-901-9		Clutch w/ SDA	—		
STV 111	Clutch only	6-211-100-101-0	-900-9	STV 121	Clutch only	6-119-300-100-0		
	Clutch w/ QCDA	6-211-100-303-0	-904-9		Clutch w/ QCDA	—		
	Clutch w/ SDA	6-211-100-304-0	-905-9		Clutch w/ SDA	6-119-304-305-0	-908-9	
STV 211	Clutch only	6-111-200-101-0	-902-9	STV 221	Clutch only	6-121-100-106-0	D-2769	
	Clutch w/ QCDA	6-111-200-311-0	-912-9		Clutch w/ QCDA	—		
	Clutch w/ SDA	6-111-200-312-0	-913-9		Clutch w/ SDA	—		
STV 311	Clutch only	6-111-300-103-0	-901-9	STV 321	Clutch only	6-121-200-143-0	-903-9	
	Clutch w/ QCDA	6-111-300-303-0	-903-9		Clutch w/ QCDA	—		
	Clutch w/ SDA	6-111-300-304-0	-904-9		Clutch w/ SDA	6-121-300-120-0	-904-9	
STV 114H	Clutch only	6-115-180-102-0	-902-9	STV 124H	Clutch w/ QCDA	6-121-300-312-0	-912-9	
	Clutch w/ QCDA	6-115-100-300-0	-903-9		Clutch w/ SDA	6-121-300-312-0	-912-9	
	Clutch w/ SDA	6-115-100-301-0	-904-9		Clutch only	6-125-100-110-0	-900-9	
STV 214H	Clutch only	6-115-280-104-0	-903-9	STV 224H	Clutch w/ QCDA	6-125-100-110-0	-900-9	
	Clutch w/ QCDA	6-115-200-300-0	-907-9		Clutch w/ SDA	6-125-100-110-0	-900-9	
	Clutch w/ SDA	6-115-200-301-0	-908-9		Clutch only	6-125-200-129-0	-915-9	
STV 314H	Clutch w/ DIC Flange Ring	6-115-204-301-0	-900-9	STV 324H	Clutch w/ QCDA	6-125-200-129-0	-915-9	
	Clutch only	6-115-380-100-0	-901-9		Clutch w/ SDA	6-125-300-113-0	-912-9	
	Clutch w/ QCDA	6-115-304-300-0	-900-9		Clutch w/ SDA	6-125-300-113-0	-912-9	
STV 116	Clutch w/ SDA	6-115-300-100-0	-100-9	STV 127	Clutch only	6-127-100-112-0	-901-9	
	Clutch w/ DIC Flange Ring	6-115-300-104-0	-904-9		Clutch w/ QCDA	—		
	Clutch only	6-116-100-112-0	-900-9		Clutch w/ SDA	—		
STV 216	Clutch w/ QCDA	6-116-100-112-0	-900-9	STV 227	Clutch only	6-127-200-130-0	-905-9	
	Clutch w/ SDA	6-116-200-121-0	-900-9		Clutch w/ QCDA	6-127-200-127-0	-905-9	
STV 316	Clutch only	6-116-200-121-0	-900-9	STV 327	Clutch w/ SDA	6-127-200-127-0	-905-9	
	Clutch w/ QCDA	6-116-300-118-0	-901-9		Clutch only	6-127-300-112-0	-903-9	
STV 118	Clutch w/ SDA	6-116-300-118-0	-901-9	STV 130H	Clutch w/ QCDA	6-131-100-101-0	D-4008	
	Clutch w/ QCDA	6-118-100-120-0	-904-9		Clutch w/ SDA	6-131-100-101-0	D-4008	
STV 218	Clutch w/ DIC Flange Ring	6-118-100-120-0	-904-9	STV 230H	Clutch only	6-131-200-307-0	-903-9	
	Clutch only	6-118-100-304-0	D-3545		Clutch w/ QCDA	—		
STV 318	Clutch w/ QCDA	6-118-200-143-0	-909-9	STV 330H	Clutch w/ SDA	6-131-200-307-0	-903-9	
	Clutch w/ DIC Flange Ring	6-118-204-300-0	-901-9		Clutch only	6-131-300-303-0	-904-9	
STV 118	Clutch only	6-118-300-309-0	-908-9	STV 330H	Clutch w/ QCDA	—		
	Clutch w/ QCDA	6-118-300-309-0	-908-9		Clutch w/ SDA	—		
STV 218	Clutch w/ SDA	6-118-300-309-0	-908-9	STV 330H	Clutch w/ QCDA	—		
	Clutch w/ DIC Flange Ring	6-118-300-311-0	-909-9		Clutch w/ SDA	—		

Note: QCDA - Quick Change Driving Adapter. A favorite of OEMs for the extra clearance gap between the clutch and Quick Change Driving Adapter, making the clutch maintenance less time consuming. SDA - Standard Driving Adapter. A close couple design where clutch maintenance is not of prime importance.

Standard Vent Clutches

Coupling and Grinding Mill Clutch Selection Specifications

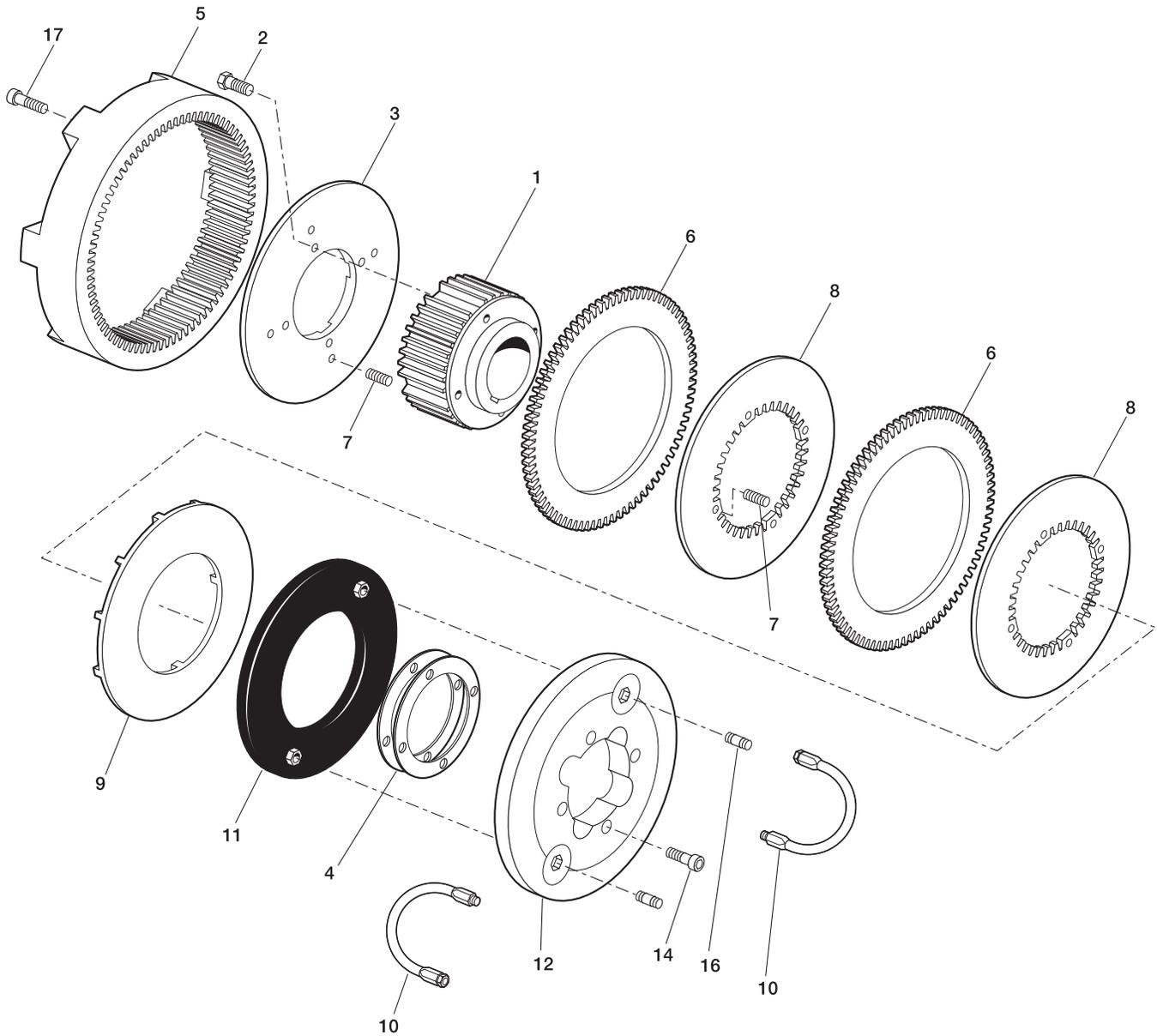
Model Size ATD-	Clutch Mounting Options	Assembly Number	Model Size ATD-	Clutch Mounting Options	Assembly Number
STV 430H	Clutch only	—	STV 248	Clutch only	6-148-200-100-0
	Clutch w/ QCDA	—		Clutch w/ QCDA	—
	Clutch w/ SDA	—			
STV 236	Clutch only	6-136-200-107-0	STV 348	Clutch only	6-148-300-100-0
	Clutch w/ QCDA	—		Clutch w/ QCDA	—
	Clutch w/ SDA	—			
STV 336	Clutch only	6-136-300-109-0	STV 448	Clutch only	—
	Clutch w/ QCDA	—		Clutch w/ QCDA	—
	Clutch w/ SDA	—			
STV 336H	Clutch only	6-137-300-300-0	STV 260	Clutch only	6-160-200-307-0
	Clutch w/ QCDA	6-137-300-301-0		Clutch w/ QCDA	—
	Clutch w/ SDA	—			
STV 242	Clutch only	6-142-200-301-0	STV 360	Clutch only	6-160-300-304-0
	Clutch w/ SDA	—		Clutch w/ QCDA	—
STV 342	Clutch only	6-142-300-300-0	STV 460	Clutch only	—
	Clutch w/ QCDA	—		Clutch w/ QCDA	6-160-430-301-0
	Clutch w/ SDA	—			
STV 442	Clutch only	—	STV 560	Clutch only	—
	Clutch w/ QCDA	—		Clutch w/ QCDA	6-160-582-300-0
	Clutch w/ SDA	—			

Note: QCDA - Quick Change Driving Adapter. A favorite of OEMs for the extra clearance gap between the clutch and Quick Change Driving Adapter, making the clutch maintenance less time consuming.
SDA - Standard Driving Adapter. A close couple design where ease of clutch maintenance is not of prime importance.

Standard Vent Clutches

Coupling and Grinding Mill Clutch Selection

Component Parts



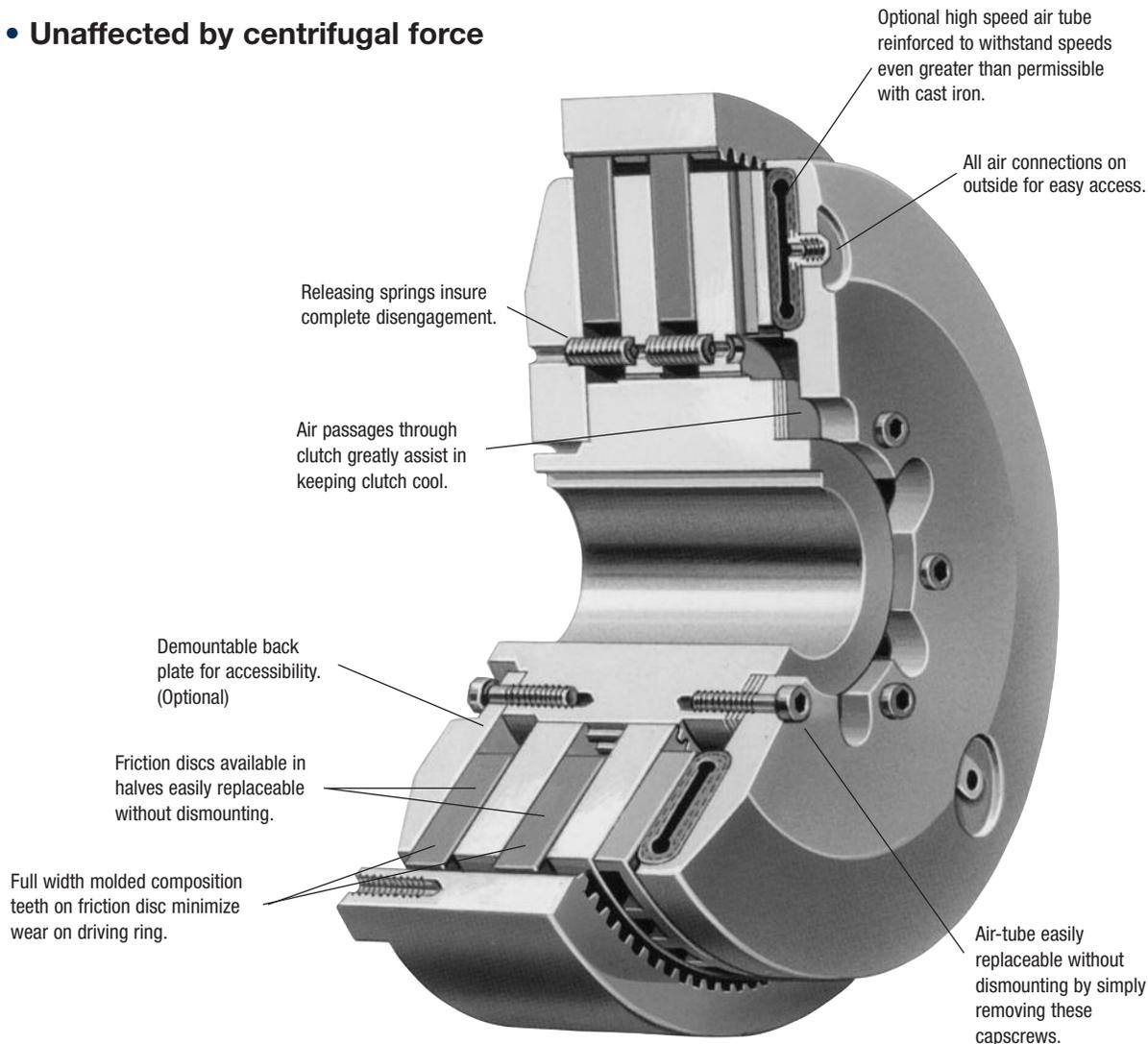
- | | |
|-------------------|----------------------------------|
| 1. Hub | 9. Pressure Plate |
| 2. Hex Head Bolt | 10. Hose Assembly |
| 3. Backplate | 11. Air Tube |
| 4. Shim | 12. Air Tube Holding Plate |
| 5. Driving Ring | 14. Socket Head Capscrew |
| 6. Friction Disc | 16. Elbow |
| 7. Release Spring | 17. Bolt (Furnished by customer) |
| 8. Center Plate | |



Standard Vent Clutches

Coupling Clutches

- In-line power applications
- Smooth, controlled acceleration
- Unaffected by centrifugal force



The Wichita Standard Vent Combination Clutch-Coupling is designed for reliable in-line power transmission. The simple air-tube design, with small air volume, speeds engagement and disengagement. It is unaffected by centrifugal force and has no self-energization like drum clutch designs. Ideally suited for large inertia loads where smooth controlled starts are needed.

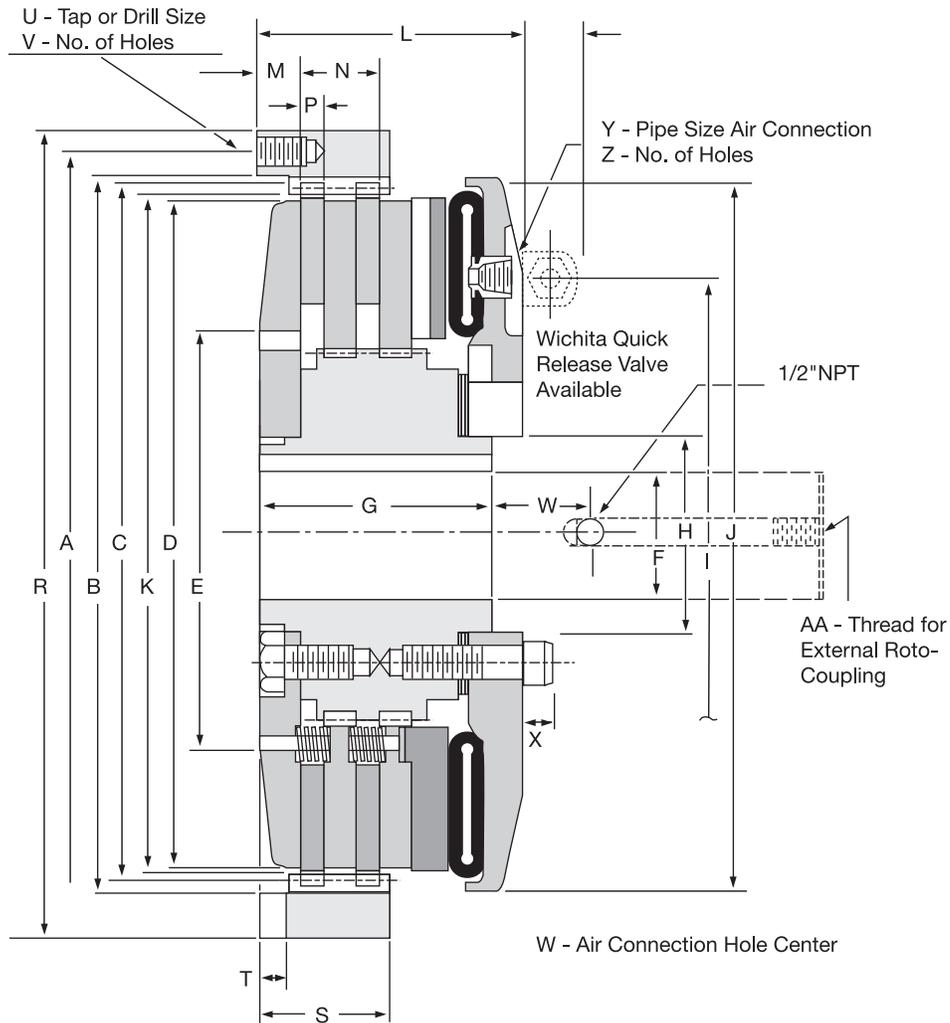
The Wichita air-tube disc design combines all the best features of a disc type clutch with all the advantages of direct air engagement. It is

the simplest and most trouble-free method of applying air pressure yet designed.

Problems of speed, smoothness, engagement or disengagement with all types of loads...problems of compactness ...problems of simplifying maintenance and many other problems in a wide range of applications are quickly solved with Wichita clutches or brakes.

Standard Vent Clutches

Coupling Clutches



Notes:

1. Air Hose Kits, page 141.
2. Quick Release Valves, page 144.
3. Roto-couplings, page 144.

Note: For mounting, use socket head capscrews conforming to the ASTM-574-97a.

Standard Vent Clutches

Coupling Clutches

Dimensions: inches (Consult factory for drawing before final layout.)

Model Size ATD-	+.003" -.000"		Max Bore Rect. Key							
	A	B	C	D	E	F	G	H	I	J
108 STVC	9.625	8.873	8.50	8	8	1.93	2.75	1.938	6.625	9.625
208 STVC	9.625	8.873	8.50	8	8	1.93	4.125	1.938	6.625	9.625
308 STVC	9.625	8.873	8.50	8	8	1.93	5.50	1.938	6.625	9.625
111 STVC	13.375	12.375	12	11	11	3.00	3	3	8.50	11.938
211 STVC	13.375	12.375	12	11	11	3.00	4.25	3	8.50	11.938
311 STVC	13.375	12.375	12	11	11	3.00	5.563	3	8.50	11.938
114H STVC	16.25	15.125	14.67	14	9.375	3.38	4.313	4.50	12.50	16.313
214H STVC	16.25	15.125	14.67	14	9.375	3.38	5.75	4.50	12.50	16.313
314H STVC	16.25	15.125	14.67	14	9.375	3.38	7.188	4.50	12.50	16.313
118 STVC	20.75	19.500	18.75	18	11.50	4.00	4.75	5.25	14	19.375
218 STVC	20.75	19.500	18.75	18	11.50	4.00	6.25	5.25	14	19.375
118H STVC	20.75	19.500	18.75	18	11.50	4.00	4.75	5.25	16	21.625
218H STVC	20.75	19.500	18.75	18	11.50	4.00	6.25	5.25	16	21.625
318H STVC	20.75	19.500	18.75	18	11.50	4.00	7.75	5.25	16	21.625
321 STVC	23.75	22.500	21.75	21	14	5.38	9.125	7	16	21.625
124H STVC	26.75	25.500	24.75	24	16	5.38	5.875	7	21	27
224H STVC	26.75	25.500	24.75	24	16	5.38	7.25	7	21	27
324H STVC	26.75	25.500	24.75	24	16	5.38	9.375	7	21	27
327 STVC	29.75	28.500	27.75	27	19.50	7.00	9.75	9	21	27
230H STVC	32.75	31.500	30.75	30	22.50	7.00	8.50	9	24.75	32.375
330H STVC	32.75	31.500	30.75	30	22.50	7.00	11.50	9	24.75	32.375
336H STVC	39.75	38.500	37.50	36	28	8.00	12.625	13.50	30.50	38.25
342 STVC	47.25	45.000	44	42	42	10.00	11.875	21	35	44.125
248 STVC	54	52.000	51	48	35	12.00	10.875	21	40	52.375
348 STVC	54	52.000	51	48	35	12.00	13.625	21	40	52.375
260 STVC	64.75	62.750	62	60	36.125	14.00	16.25	22.625	46.50	61.50
360 STVC	64.75	62.750	62	60	36.125	14.00	20	22.625	46.50	61.50
460 STVC	64.75	62.750	62	60	36.125	14.00	23.50	22.625	46.50	61.50

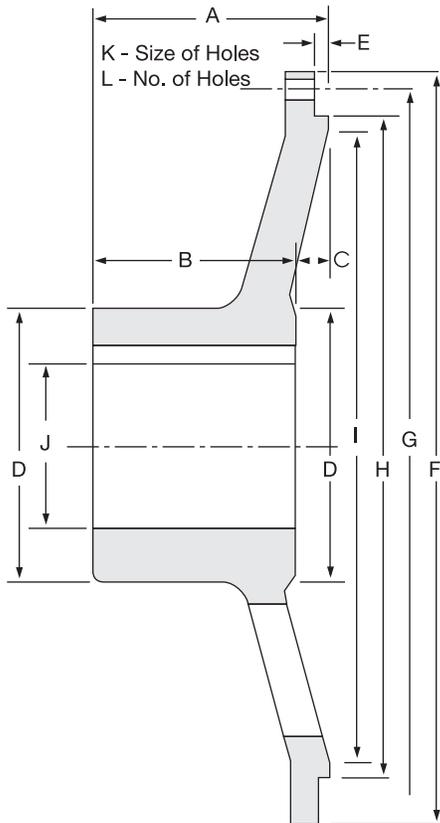
Model Size ATD-	K	L	M	N	P	R	S	T	U	V	W	X	Y	Z
	108 STVC	8.247	4	.75	—	.438	10.375	1.375	.50	1/2 NC	6	2.25	.50	1/2
208 STVC	8.247	5.313	.75	1.75	.438	10.375	2.625	.50	1/2 NC	6	2.25	.50	1/2	2
308 STVC	8.247	6.625	.75	3.063	.438	10.375	3.875	.50	1/2 NC	6	2.25	.50	1/2	2
111 STVC	11.763	4.125	.875	—	.50	14.375	1.50	.50	5/8 NC	8	2.50	.438	1/2	2
211 STVC	11.763	5.25	.875	1.75	.50	14.375	2.875	.50	5/8 NC	8	2.50	.438	1/2	2
311 STVC	11.763	6.75	.875	3	.50	14.375	4.25	.50	5/8 NC	8	2.50	.438	1/2	2
114H STVC	14.451	5.125	1.125	—	.625	17.50	1.875	.625	5/8 NC	6	2.25	.75	1/2	2
214H STVC	14.451	6.50	1.125	2	.625	17.50	3.25	.75	5/8 NC	6	2.25	.75	1/2	2
314H STVC	14.451	8	1.125	3.375	.625	17.50	4.75	.75	5/8 NC	6	2.25	.75	1/2	2
118 STVC	18.375	5.625	1.313	—	.625	22	1.938	.75	5/8 NC	6	2.438	1	1/2	3
218 STVC	18.375	7.125	1.313	2.125	.625	22	3.50	.75	5/8 NC	6	2.438	1	1/2	3
118H STVC	18.375	5.625	1.313	—	.625	22	1.938	.75	5/8 NC	6	2.438	1	1/2	3
218H STVC	18.375	7.25	1.313	2.125	.625	22	3.50	.75	5/8 NC	6	2.438	1	1/2	3
318H STVC	18.375	8.688	1.313	3.75	.625	22	5.125	.75	5/8 NC	6	2.438	1	1/2	3
321 STVC	21.350	10.125	1.625	4.25	.75	25	6.125	1	5/8 NC	6	2.375	1	1/2	3
124H STVC	24.312	6.563	1.625	—	.875	28	2.813	.75	5/8 NC	6	2.75	1	1/2	3
224H STVC	24.312	8.625	1.625	2.75	.875	28	4.50	.75	5/8 NC	6	2.75	1	1/2	3
324H STVC	24.312	10.563	1.625	4.625	.875	28	6.25	.75	5/8 NC	6	2.75	1	1/2	3
327 STVC	27.361	10.75	1.625	4.625	.875	31	6.50	1.375	5/8 NC	12	2.375	1	1/2	3
230H STVC	30.361	10.125	1.625	3.75	1.25	34	5.625	1.125	5/8 NC	12	2.875	1	1/2	4
330H STVC	30.361	12.75	1.625	6.25	1.25	34	8.125	1.125	5/8 NC	12	2.875	1	1/2	4
336H STVC	37.159	14.375	1.938	7.125	1.375	41	9	1.50	5/8 NC	16	2.875	1	1/2	4
342 STVC	43.627	14	2	7.375	1.375	49.25	9.625	1.75	1" NC	12	3.50	1.25	1/2	4
248 STVC	50.815	13.75	2.625	4.125	1.375	56	7.125	2	1" NC	12	3.50	1.25	1/2	4
348 STVC	50.815	15.75	2.625	6.875	1.375	56	9.875	2	1" NC	12	3.50	1.25	1/2	4
260 STVC	61.700	16.25	3	5.50	3	66.75	9	2.50	1" NC	24	2	2	1/2	6
360 STVC	61.700	20	3	9	3	66.75	13	2.50	1" NC	24	2	2	1/2	6
460 STVC	61.700	23.375	3	12.50	3	66.75	16.50	2.50	1" NC	24	2	2	1/2	6

Standard Vent Clutches

Coupling Clutches

Standard Driving Adapters

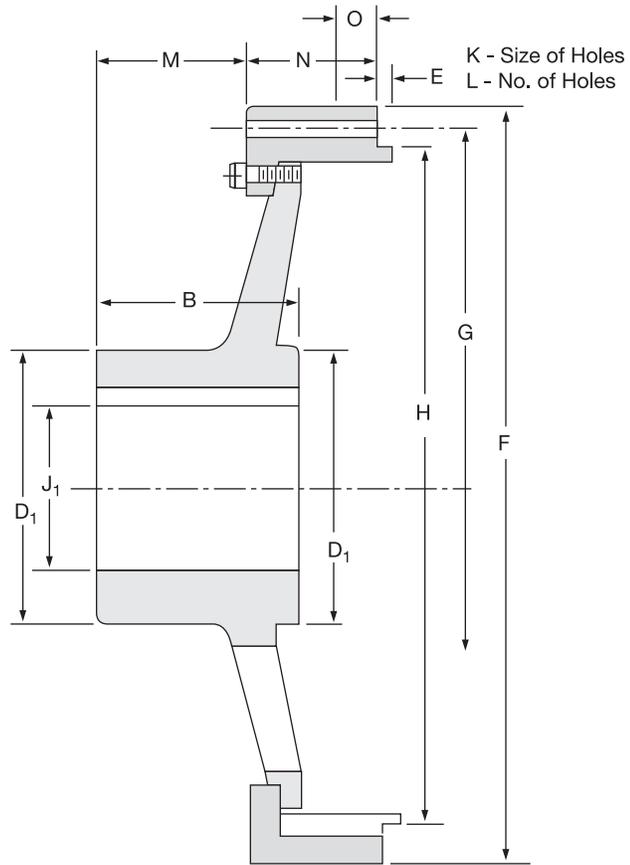
The driving adapter is designed to allow the clutch to be used in a shaft-to-shaft or through-shaft coupling arrangement.



Standard Adapter (Standard Gap)

Quick Change Adapters

The quick change feature, using a driving elbow piece between the driving adapter and the clutch driving ring, enables replacement of any wearing clutch part without disturbing either shaft.



Quick Change Adapter (Access Gap)

Standard Vent Clutches

Coupling Clutches

Dimensions: inches

Size	A	B	C	D	D ₁	E	F	G	H
8	3.125	3	.125	3.75	—	.125	10.375	9.625	8.869
11	3.625	3.25	.375	6.25	5	.125	14.375	13.375	12.371
14H	5.375	4.75	.625	7	6.25	.25	17.50	16.25	15.121
18	6.875	5.75	1.125	8	8	.375	22	20.75	19.496
18H	6.875	5.75	1.125	8	8	.375	22	20.75	19.496
21	6.75	6	.75	9.50	9	.25	25	23.75	22.496
24H	8.375	7.313	1.063	10	12	.25	28	26.75	25.495
27	8.75	7.75	1	11	11.50	.25	31	29.75	28.495
30H	9.25	8.75	.50	14	14	.25	34	32.75	31.495
36	10.50	10	.50	15	14	.25	41	39.75	38.495
42	11	10	1	15	15	.25	49.25	47.25	44.995
48	—	13.625	—	—	20	.50	56	54	52.000
60	—	16.25	—	24	—	.375	66.75	64.75	62.750

Size	I	Max. Bore Rect. Key J	J ₁	K	L	M	N	O
8	8.375	2.50	—	.531	6	1.875	*	—
11	11.75	4.13	3.375	.656	8	2	2.50	—
14H	14.50	4.75	4.125	.656	6	2.125	3.125	—
18	18.50	5.25	5.25	.688	6	4.375	3.50	—
18H	18.50	5.25	5.25	.688	6	4.375	3.50	—
21	21.75	6.25	6	.688	6	4	6.25	—
24H	24.50	6.63	6.625	.688	6	5.188	5.50	—
27	27.75	7.25	7.625	.688	12	5.563	4.625	—
30H	30.50	9.25	9.25	.688	12	6.50	5.75	—
36	37.50	10.00	9.25	.688	16	7.875	4.125	—
42	44	10.00	10	1.031	12	7.438	5.688	—
48	—	—	15	1.031	12	10.125	6.125	—
60	—	18.00	—	1.031	24	12.25	11.50	2.50

* Consult Factory

Note: For mounting, use socket head capscrews conforming to the ASTM-574-97a.

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